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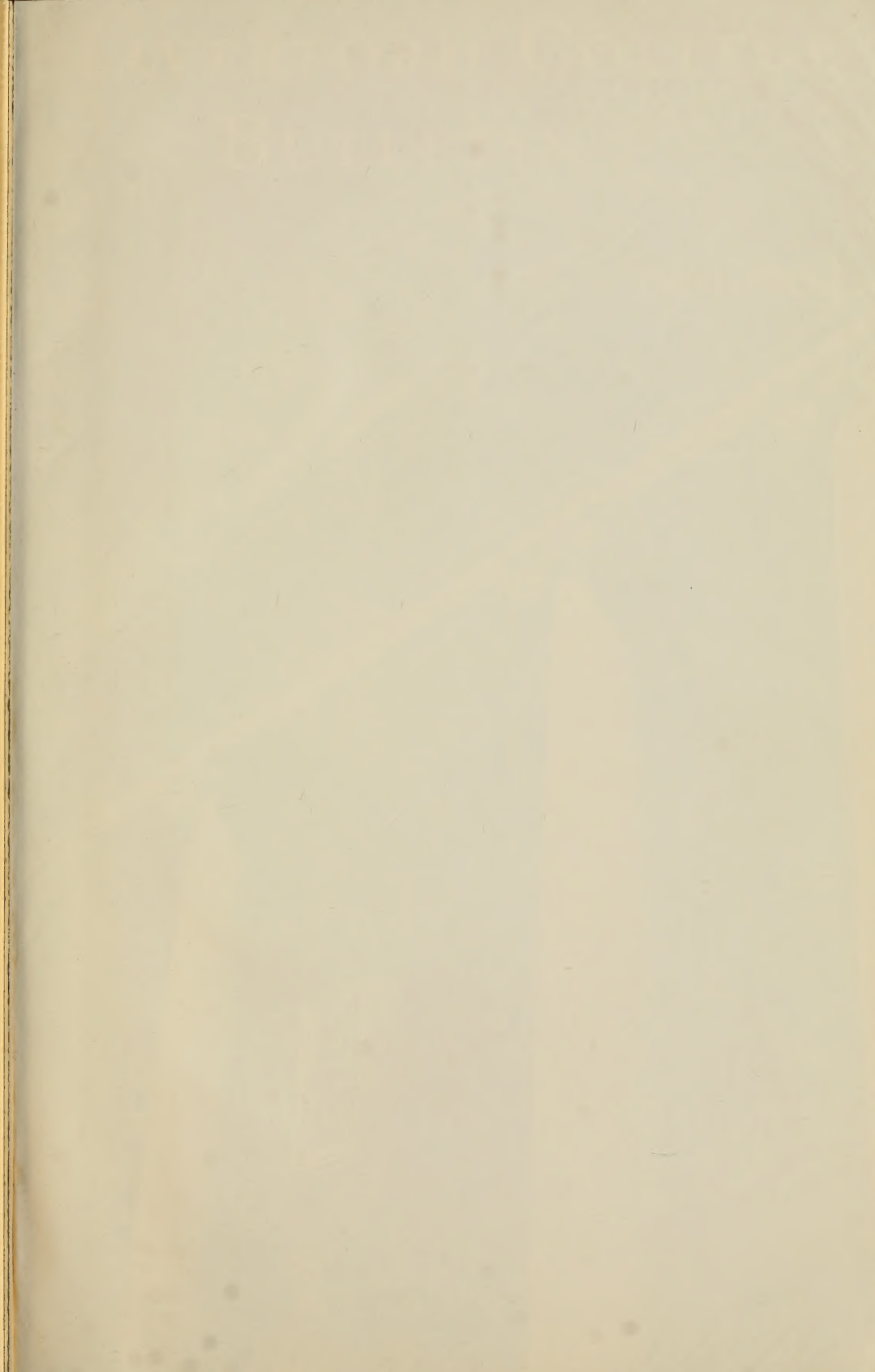
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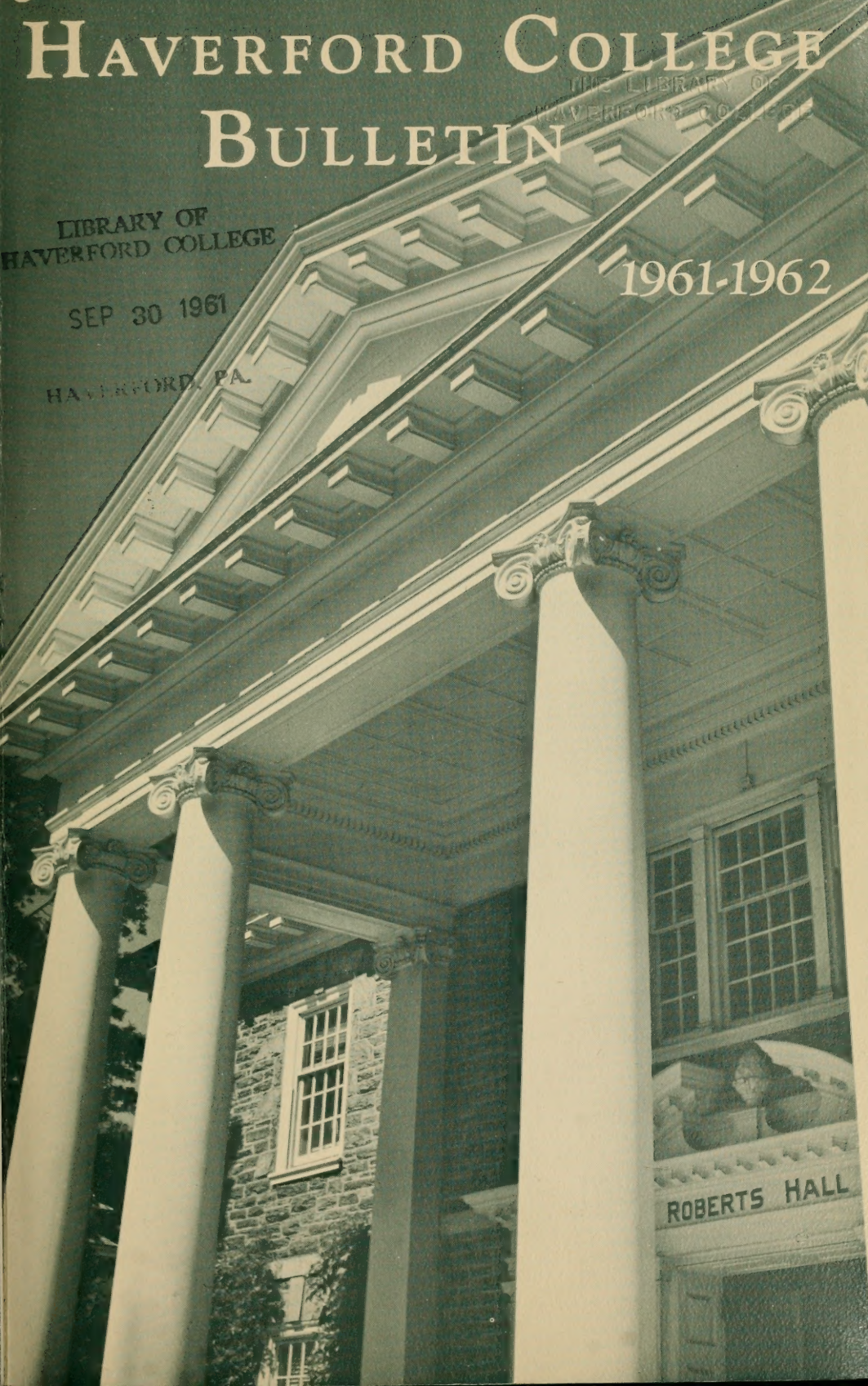
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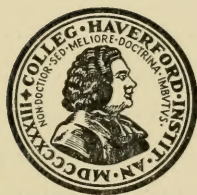
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HAVERFORD COLLEGE BULLETIN



1961—1962

HAVERFORD, PENNSYLVANIA

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1961																
Sept.	S	M	T	W	T	F	S	Nov.	S	M	T	W	T	F	S	
						1	2						1	2	3	4
	3	4	5	6	7	8	9		5	6	7	8	9	10	11	
	10	11	12	13	14	15	16		12	13	14	15	16	17	18	
	17	18	19	20	21	22	23		19	20	21	22	23	24	25	
	24	25	26	27	28	29	30		26	27	28	20	30			
Oct.	1	2	3	4	5	6	7	Dec.						1	2	
	8	9	10	11	12	13	14		3	4	5	6	7	8	9	
	15	16	17	18	19	20	21		10	11	12	13	14	15	16	
	22	23	24	25	26	27	28		17	18	19	20	21	22	23	
	29	30	31						24	25	26	27	28	29	30	
									31							
1962																
Jan.	S	M	T	W	T	F	S	Apr.	S	M	T	W	T	F	S	
		1	2	3	4	5	6		1	2	3	4	5	6	7	
	7	8	9	10	11	12	13		8	9	10	11	12	13	14	
	14	15	16	17	18	19	20		15	16	17	18	19	20	21	
	21	22	23	24	25	26	27		22	23	24	25	26	27	28	
	28	29	30	31					29	30						
Feb.					1	2	3	May			1	2	3	4	5	
	4	5	6	7	8	9	10		6	7	8	9	10	11	12	
	11	12	13	14	15	16	17		13	14	15	16	17	18	19	
	18	19	20	21	22	23	24		20	21	22	23	24	25	26	
	25	26	27	28					27	28	29	30	31			
Mar.					1	2	3	June						1	2	
	4	5	6	7	8	9	10		3	4	5	6	7	8	9	
	11	12	13	14	15	16	17		10	11	12	13	14	15	16	
	18	19	20	21	22	23	24		17	18	19	20	21	22	23	
	25	26	27	28	29	30	31		24	25	26	27	28	29	30	

College days in heavy-face type.

1961-1962

**** Laboratory notebooks must be turned in not later than the scheduled time of the examination in the course. Late notebooks will receive no credit unless arrangements have been made *in advance* with the instructor in the course and the Dean. In courses which have no scheduled examination, notebooks must be turned in by 4 P.M. on Tuesday of the final week of the examination period.**

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 logical Seminary.
- ALFRED JULIUS SWAN *Professor of Music, Emeritus*
 B.A. and M.A., Oxford University.
- (*The active members of the Faculty are arranged in the order of their
 appointment to their present rank. Two or more appointed in
 the same year are listed in alphabetical order.*)
- *DOUGLAS VAN STEERE *T. Wistar Brown Professor of Philosophy*
 S.B., Michigan State College; B.A. and M.A., Oxford University; A.M. and
 Ph.D., Harvard University; D.D., Lawrence College; L.H.D., Oberlin College.
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- ROY EARL RANDALL *Professor of Physical Education*
 Ph.B., Brown University. *and Director of Intercollegiate Athletics*

† Deceased.

* Absent on leave, 1961-62.

** Absent on leave, second semester.

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A.B., Stanford University; A.M., University of Michigan; Ph.D., Yale University.
- LOUIS CRAIG GREEN.....*Professor of Astronomy*
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- WILLIAM EDWARD CADBURY, JR.....*Professor of Chemistry*
B.S. and M.A., Haverford College; Ph.D., University of Pennsylvania.
- RUSSELL RAYMOND WILLIAMS, JR.....*Professor of Chemistry*
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- HOWARD COMFORT.....*Professor of Classics*
B.A., Haverford College; A.M. and Ph.D., Princeton University.
- WILLIAM DOCHERTY, JR.....*Professor of Physical Education*
S.B., Temple University. *and Director of Physical Education*
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B.S. in M.E. and M.E., University of New Hampshire; M.A., Haverford College.
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A.B., Amherst College; M.A., Columbia University; Ph.D., University of Berlin.
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- ROBERT IRVING WALTER.....*Associate Professor of Chemistry*
B.S., Swarthmore College; M.A., Johns Hopkins University; Ph.D., University of Chicago.

* Absent on leave 1961-62.

- DOUGLAS HAMILTON HEATH.....*Associate Professor of Psychology*
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- BRADFORD COOK.....*Associate Professor of French*
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- A. PAUL HARE.....*Associate Professor of Sociology*
B.A., Swarthmore College; M.A., University of Pennsylvania; Ph.D., University of Chicago.
- ROBERT HAWES BUTMAN.....*Director of Drama with rank of Associate Professor*
B.A. and M.A., University of North Carolina.
- JOHN RICHARD CARY.....*Associate Professor of German*
B.A., Haverford College; Ph.D., Johns Hopkins University.
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B.A., Swarthmore College; M.A. and Ph.D., Harvard University.
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B.S., University of Notre Dame; M.S. and Ph.D., University of Chicago.
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B.S., St. John's University; M.S., University of Massachusetts; Ph.D., George Washington University.
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- HARMON CRAIG DUNATHAN.....*Assistant Professor of Chemistry*
B.A., Ohio Wesleyan University; M.S. and Ph.D., Yale University.
- IRVING FINGER.....*Assistant Professor of Biology*
B.A., Swarthmore College; Ph.D., University of Pennsylvania.
- PAUL J. R. DESJARDINS.....*Assistant Professor of Philosophy*
B.A., M.A. and Ph.D., Yale University.
- GEORGE ALEXANDER KENNEDY.....*Assistant Professor of Classics*
A.B., Princeton University; A.M. and Ph.D., Harvard University.
- **JAMES O. BROOKS.....*Assistant Professor of Mathematics*
B.A., Oberlin College; M.A., University of Michigan.
- JOHN HERBERT DAVIDSON.....*Assistant Professor of Music*
B.A., Haverford College; A.M., Harvard University; Ph.D., University of Rochester.
- JAMES WINTHROP HARPER.....*Assistant Professor of English*
B.A., Knox College; M.A., Stanford University; Ph.D., Princeton University.
- ERNEST JOSEPH PRUDENTE.....*Assistant Professor of Physical Education*
B.S. in Ed., University of Pennsylvania.
- LOUIS SOLOMON.....*Assistant Professor of Mathematics*
A.B. and Ph.D., Harvard University.

** Absent on leave, part time, 1961-62.

- JOHN PHILIP SPIELMAN, JR.....*Assistant Professor of History*
B.A., Montana State University; M.A. and Ph.D., University of Wisconsin.
- HARVEY GLICKMAN.....*Assistant Professor of Political Science*
A.B., Princeton University; A.M. and Ph.D., Harvard University.
- EUGENE SMOLENSKY.....*Assistant Professor of Economics*
A.B., Brooklyn College; M.A., American University, Ph.D., University of Pennsylvania.
- GUY MATTISON DAVENPORT, JR.....*Assistant Professor of English*
A.B., Duke University; B.Litt., Oxford University; Ph.D., Harvard University.
- DALE HARPER HUSEMOLLER.....*Assistant Professor of Mathematics*
B.A., University of Minnesota; A.M. and Ph.D., Harvard University.
- SYDNEY IRWIN PERLOE.....*Assistant Professor of Psychology*
B.A., New York University; Ph.D., University of Michigan.
- ENGLISH SHOWALTER, JR.....*Assistant Professor of French*
B.A. and M.A., Yale University.
- GERHARD ERNST SPIEGLER.....*Assistant Professor of Religion*
D.B. and M.A., University of Chicago.
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B.S. and B.A., Moorhead State College; M.A., Miami University; Ph.D., Rutgers University.
- THOMAS ALONZO BENHAM.....*Lecturer in Physics*
B.S. and M.S., Haverford College.
- CLARENCE EVAN PICKETT.....*Lecturer in Christian Ethics*
A.B., Penn College; B.D., Hartford Theological Seminary; LL.D., Haverford College; LL.D., Earlham College.
- HENRY JOEL CADBURY.....*Lecturer in Quakerism*
B.A. and Litt.D., Haverford College; A.M. and Ph.D., Harvard University; D.D., University of Glasgow; LL.D., Whittier College; LL.D., Swarthmore College; L.H.D., Howard University.
- JOACHIM MAASS.....*Lecturer in German Literature*
Deutsche Akademie für Sprache und Dichtung, Darmstadt; Freie Akademie der Künste, Hamburg.
- URSULA SANTER.....*Lecturer in Biology*
B.A., Swarthmore College; M.S. and Ph.D., Yale University.
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B.A., Manhattan College.
- AVERY DELANO ANDREWS, II.....*Instructor in History*
B.A., Harvard University; LL.B. and M.A., University of Pennsylvania.

Special Appointments

- FORREST DUANE COMFORT.....*Counselor*
A.B., Penn College; M.A., Haverford College; Ed.M., Harvard University.
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- RAYMOND TAYLOR BRAMALL.....*Assistant in Physical Education*
B.S., M.S. and Ed.D., University of Pennsylvania.
- NORMAN MONTGOMERY WILSON.....*Assistant in Engineering*
- FRITZ JANSCHKA.....*Artist in Residence, Bryn Mawr College*
Akademie der Bildenden Künste, Vienna.
- ELIZABETH UFFORD GREEN.....*Research Associate in Biology*
A.B., M.A. and Ph.D., Bryn Mawr.
- ANNE RAMSAY SOMERS.....*Research Associate in Political Science*
B.A., Vassar College.
- DAVID SHOEMAKER RICHIE.....*Adviser in Work Camp Program*
B.S., Haverford College.
- WALLACE KELLY.....*Sculptor*

- SAMUEL M. V. TATNALL.....*Assistant in Physics*
B.A., Haverford College.
- ELEANOR MAASS.....*Assistant in Chemistry*
B.S. and M.S., University of Illinois; Ph.D., University of Wisconsin.

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LL.D., Temple University; LL.D., University of Pennsylvania.
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B.A., Haverford College; M.A., Columbia University; Ph.D., University of Pennsylvania; LL.D., Haverford College.
- WALTER C. BAKER.....*Vice President for Development*
B.A., Haverford College.
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B.S. and M.A., Haverford College; Ph.D., University of Pennsylvania.
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D.S.E. and C., University of Naples.
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A.B., Dickinson College; A.M. and Ph.D., Princeton University.
- THOMAS EDWARD DRAKE.....*Curator of the Quaker Collection*
A.B., Stanford University; A.M., University of Michigan; Ph.D., Yale University.
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A.B., A.M. and Ph.D., Princeton University.
- MRS. EDYTHA M. CARR.....*Registrar*
- MRS. MIRIAM R. NUGENT.....*Director of Food and Housing*
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B.S., Haverford College.
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B.A., Haverford College; M.S.S., Bryn Mawr College.
- WILLIAM WEBSTER AMBLER.....*Associate Director of Admissions*
B.S., Haverford College.
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B.A., Acadia University; B.S. (L.S.), Simmons College.
- MRS. ESTHER R. RALPH.....*Assistant Librarian*
B.S., West Chester State College; B.S. (L.S.), Drexel Institute of Technology.
- GERTRUDE MANN WONSON.....*Secretary to the Director of Admissions*
B.S., Simmons College.
- MRS. KATHARINE M. CARTER.....*Secretary to the President*
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- MRS. FLORENCE N. ANDREWS.....*Secretary to the Dean*
Certificate, Philadelphia Normal School

Medical Staff

- WILLIAM WOLTER LANDER.....*Physician*
B.S., Ursinus College; M.D., University of Pennsylvania.
- PETER G. BENNETT.....*Psychiatrist for the College*
M.D., University of Pennsylvania.
- BERTHA KRATZ.....*Resident Nurse*
R.N., Stetson Hospital.

Visiting Faculty on The Philips Fund 1960-1961

- KENNETH ATKINS
Professor of Physics, University of Pennsylvania.
- MARTIN DEUTSCH
Professor of Physics, Massachusetts Institute of Technology.
- CARL DJERASSI
Professor of Chemistry, Stanford University.
- MAC V. EDDES, JR.
Professor of Biology, Brown University.
- D. V. GLASS
Chairman of the Board of Studies in Sociology, University of London, Chairman of the United Kingdom's Population Investigation Committee.
- PHILIP HAUSER
Professor of Sociology, Director, Population Research and Training Center, University of Chicago.
- HERBERT H. JASPER
Professor of Psychiatry and Psychology, McGill University.
- GEORGE E. KIMBALL
Science Advisor, Arthur D. Little, Inc., Cambridge, Mass.
- T. D. LEE
Institute for Advanced Study, Princeton, N. J.
- DONALD B. LINDSLEY
Professor of Psychology, University of California at Los Angeles.
- FRANK LORIMER
Professor of Sociology and Demography, American University, President International Union for the Scientific Study of Population.
- RICHARD L. MASLAND
Director, National Institute of Neurological Diseases and Blindness.
- EUGENE J. MCCARTHY
U. S. Senator, Minnesota.
- PHILIP MORRISON
Professor of Physics, Cornell University.
- MARSTON MORSE
Institute for Advanced Study, Princeton, N. J.
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Research Professor of Psychology, University of Illinois.
- GARDNER MURPHEY
Director of Research, The Menninger Foundation, Topeka, Kansas.
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Chairman, Department of Art and Archeology, Washington University, St. Louis, Missouri.
- FRANK NOTESTEIN
President of the Population Council.
- JAMES OLDS
Professor of Psychology, University of Michigan.
- KARL PRIBRAM
Associate Professor of Psychiatry and Psychology, Stanford University.
- HOWARD A. SCHNEIDERMAN
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Professor of Mathematics, Harvard University.
- CHARLES H. TOWNES
Vice-President and Director of Research Institute for Defense Analyses, Professor of Physics, Columbia University.
- ANDRE WEIL
Institute for Advanced Study, Princeton, N. J.

Academic Council

The Academic Council consists of the President as Chairman, three elected divisional representatives of the Faculty, one to be elected yearly, the two Faculty representatives to the Board, Vice President MacIntosh, and the Dean, as Secretary of the Council. The Academic Council: 1) considers matters of college policy referred to it by the President and by members of the Council, 2) appoints the standing faculty committees, and 3) makes recommendations to the President on Faculty appointments, reappointments, promotions, and tenure in accordance with accepted procedures. The elected members of the Academic Council for the academic year beginning September 1, 1961 are Mr. Hunter (Social Sciences), Mr. Williams (Natural Sciences), and Mr. Gutwirth (Humanities).

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MESSR. QUINN, SOLOMON

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MESSRS. HARE, ROSE

Arts and Service: MR. HETZEL, *Chairman*

MR. DAVISON

Curriculum and College Program: MR. KENNEDY, *Chairman*

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Faculty Research and Study: MR. SOMERS, *Chairman*

MESSRS. COOK, LOEWY, SATTERTHWAITE

Honors, Fellowships and Prizes: MRS. SELOVE, *Chairman*

MESSRS. ASHMEAD, DRAKE, PFUND

Library: MR. SANTER, *Chairman*

MESSRS. GUTWIRTH, SMOLENSKY

Philips Program: MR. CARY, *Chairman*

MESSRS. DAVIDON, GLICKMAN

The President and Vice President MacIntosh are ex officio members of all committees. The Vice President for Development will attend such committee meetings as he considers necessary for the proper functioning of his office.

THE COLLEGE PROGRAM

Aims and Objectives

AS A QUAKER institution, Haverford College stresses three interrelated elements in its educational philosophy. These are a high standard of academic performance within a broadly-based, liberal arts curriculum, the individual nature of this education, and the importance of personal ideals and moral values. Thus, while the College places a high value on scholarship and intellectual expertness, it emphasizes simultaneously the development of sound ethical judgments based on a clear perception of individual and social aims.

A selective admissions policy brings to Haverford a diverse group of young men of high scholastic ability. The personality and character of candidates are important considerations in their selection. In his academic work, each student is encouraged and expected to perform at a level consistent with his abilities. The more capable the student, the more is expected of him. A Haverford student will soon discover the high value which the College attaches to intellectual integrity, a search for truth wherever it leads, independence of judgment, an imaginative grasp of the interrelationship of the branches of knowledge, and a capacity to carry out independent work. The requirements for graduation are designed to develop the ability to learn, to understand, and to reach sound conclusions, on the basis of study in each of the broad fields of human knowledge as well as by concentration in a single field.

In an atmosphere which demands high academic achievement of its students and which values and cherishes freedom of thought, Haverford College can be justly proud of the quality and ability of its faculty. Individually and collectively, their teaching skill, their enthusiasm for scholarly research, and their devotion to learning provide a continuous challenge and inspiration to their students.

The College believes that the desirable qualities cultivated in the classroom and laboratory can be supplemented and strengthened by a sound program of non-academic courses, athletics, and extracurricular activities. The Arts and Service non-credit courses are designed to encourage interest in constructive community service and to develop appreciation of beauty and certain creative skills. Athletic activities, including intramural and intercollegiate contests, promote physical fitness and coordination and provide opportunity for all students to experience the benefits of wholesome competition and team play. A variety of campus organizations allow each student to join with others in pursuing common interests. The important role of the honor system in student government emphasizes the value which the community places on individual responsibility.

Haverford College believes that while the mastery of facts, techniques, and certain skills is important, it must be coupled with the desire and moral capacity to use them for worthwhile ends. It will continue to lay stress on the formation of moral values and personal ideals, not insisting on any set beliefs, but cherishing freedom of religious beliefs and of conscience. Such growth is fostered by the weekly Collections, or assemblies, where leaders from various walks of life share with the undergraduates their diverse experiences and points of view. In addition, outstanding scholars frequently visit the campus for lectures or special classes, and have extensive personal contacts with students. In the mid-week Fifth-Day Meeting, a traditional Quaker meeting for worship, there is opportunity for the Haverford College student to learn from the meditative silence or from a spoken message how to delineate and cultivate the highest moral principles and to see himself in his proper relation to his fellows and to life as a whole.

History

HAVERFORD COLLEGE was founded in 1833 as the first college established by members of the Society of Friends in the United States. It was organized as an institution which would provide an "enlarged and liberal system of instruction" to meet the intellectual needs of "Friends on this continent," offering a course of instruction in science, mathematics, and classical languages "as extensive as given in any literary institution in this country." In those days it was modestly called Haverford School, but the intent was clear to create a center that would give to Friends the kind of education which other young Americans were receiving in the best colleges.

The choice of the site for the College exercised its founders for three years; it was settled by the purchase of 198 acres of rolling farmland in the center of the Welsh Tract, a large area originally set apart by William Penn for Quaker immigrants from Wales. Today the campus (increased to 216 acres) is a beautiful area of fields and woodlands, although the Philadelphia suburbs have spread out along the Main Line to Haverford and beyond.

In its first forty years, the College gained in maturity while establishing policies and practices to make effective the ideals of its founders. In 1847 it opened its doors to young men who were not members of the Society of Friends, and in 1856 it became a degree-granting institution, with a tradition of high scholarship which has continued unshaken.

President Isaac Sharpless, 1887-1917, led Haverford College into the forefront of American collegiate institutions. His many-sided genius enabled him

to gather and hold together a faculty of extraordinary capacity. During the administration of William Wistar Comfort from 1917-1940 the student body increased from two hundred to over three hundred, and the College continued its emphasis on intellectual achievement combined with concern for the physical and moral development of its undergraduates. Felix Morley, a Rhodes Scholar of the Class of 1915, was President during the difficult years of World War II. Gilbert White, his successor, took office in 1946 and continued until 1955, at which time he retired from the Presidency to head the Department of Geography at the University of Chicago. Hugh Borton, of the Class of 1926, was inaugurated as President October 19, 1957.

Resources

Over the years Haverford's campus has been improved by the addition of dormitories and other buildings to supplement Founders Hall, which dates from the inception of the College, and Alumni Hall, built in 1856, which now forms a part of the Library. Except for about sixty day students, all the students at Haverford live in dormitories on the campus or in houses immediately adjacent to it. Similarly, a large portion of the Faculty live in houses and apartments owned by the College and situated on the campus. This is helpful in establishing an atmosphere of community life and in encouraging personal contacts between student and teacher.

The dormitories include Founders Hall, Barclay, built in the nineteenth century, Lloyd, completed in 1926, and Morris E. Leeds Hall, which was opened in the Fall of 1955. The Spanish, German and French Houses, established in recent years, give students interested in these studies an opportunity to live in close association with others specializing in these fields.

Chase Hall, containing classrooms, the Lyman Beecher Hall Chemistry Building, and Sharpless Hall, containing the physics and biology laboratories, date from President Sharpless's administration, as do the Haverford Union, used for many College activities, Roberts Hall, the administration building, and the Morris Infirmary. The Gymnasium, built in 1900, was supplemented in the Fall of 1957 by the Alumni Field House, which affords capacious facilities for indoor athletics and already has proved its value in Haverford's extensive program for physical education.

During the next three years the College will be conducting a \$3.6 million development campaign to insure that it continues to maintain its present high standards. Chief objective of the campaign is a new Chemistry, Physics, and Mathematics building.

The endowment and trust funds of Haverford College, which currently have a book value of over \$12,000,000, together with the support given to the College annually by its Alumni and other friends, has enabled it to maintain a superior faculty of unusual size in proportion to the number of students. Enrollment, currently limited to approximately 450, is kept low so that teaching may continue on the basis of personal acquaintance in a unified community as it has throughout the history of the College.

Haverford Station on the Pennsylvania Railroad, between Ardmore and Bryn Mawr, is twenty minutes from downtown Philadelphia. The campus fronts on the famous Lancaster Pike (U. S. 30), a few miles from the Pennsylvania Turnpike. It is approximately two hours train journey from Haverford to New York or Baltimore and less than three hours to Washington. Philadelphia's Orchestra, its museums and libraries, its scientific laboratories and industrial plants are all easily accessible to Haverford students, who can make full use of the cultural opportunities of a city while enjoying the beauty of a college campus in a quiet suburban setting.

Admission

THE POLICY of Haverford College is to admit to the Freshman class those applicants who, in the opinion of the Committee on Admissions, are best qualified to profit by the opportunities which the College offers and at the same time to contribute to undergraduate life. Due regard is given not only to scholarly attainment, as shown by examination and by school record, but also to character, personality, and interest and ability in important extra-curricular activities.

Whenever practicable, the College will expect the candidate to have a personal interview with the Director of Admissions or another administrative officer. Every applicant should realize that, in view of the limited enrollment, he is entering a competition for admission to a carefully selected and comparatively small student organization. On the basis of all information available — College Board reports, school record, class standing, evidence touching on character and personality — the application will be accepted or rejected, and the decision of the Committee on Admissions is final. Preference will be given to those with superior records and credentials rather than to those with mere priority of application.

Students who are accepted will be admitted without conditions. Those who on entrance show marked proficiency in certain subjects will be permitted to take courses usually not open to Freshmen; in such cases, however, the number of courses required for a degree will not be diminished.

Each applicant for admission must take the Scholastic Aptitude Test, three Achievement Tests, and the Writing Sample of the College Entrance Examination Board. The English Achievement Test is required, but a candidate may choose the other two tests. If there is any doubt about the choice of the two tests, he should consult the Director of Admissions. Applications involving divergence from the normal procedure must be discussed in detail with the Director of Admissions.

In addition, the applicant must submit his school record and a certificate of character signed by his school principal. The school certificate must show satisfactory attainment in 15 units* of work. The preparatory course must include four years of English, at least a year and a half of Algebra and one year of Geometry (demonstrative or analytic or both), and three years of a foreign language. The remaining units will be drawn from laboratory science, social science, history, and additional mathematics and language.

* A unit represents a year's study in any subject in a secondary school, constituting approximately a quarter of a full year's work.

A candidate may offer an elective in a subject not usually listed, provided he shows proficiency which indicates an amount of study and intellectual effort commensurate with that required in other subjects. The subject chosen must have the approval of the Admissions Committee.

Applications for admission should be submitted early in the candidate's senior year. The application must be accompanied by a check or money order for \$10.00 drawn to the order of Haverford College to cover the application fee, which is not refundable. Upon receipt of the application, the College will send a school record form to the candidate for completion by the school officials.

Candidates are encouraged to visit the College for an interview. The Office of Admissions is open from 9:00 a.m. until 4:30 p.m. on weekdays and from 9:00 a.m. until noon on Saturdays. The office is closed on Saturdays during the summer. Arrangements should be made in advance for an appointment.

Information Concerning College Entrance Board Tests

The College Entrance Examination Board will offer examinations on each of the following dates during the academic year 1961-62:

- | | |
|----------------------------|---|
| Saturday, December 2, 1961 | — Scholastic Aptitude Test, Achievement Tests, and Writing Sample |
| Saturday, January 13, 1962 | —Scholastic Aptitude Test, Achievement Tests, and Writing Sample |
| Saturday, March 3, 1962 | —Scholastic Aptitude Test, Achievement Tests, and Writing Sample |
| Saturday, May 19, 1962 | — Scholastic Aptitude Test and Achievement Tests |
| Wednesday, August 8, 1962 | — Scholastic Aptitude Test and Achievement Tests |

8:45 A.M.—Scholastic Aptitude Test (Verbal and Mathematical Sections)

1:45 P.M.—Achievement Tests—Candidates may not take more than three of the following:

English Composition	Advanced Mathematics
Social Studies	Biology
French	Chemistry
German	Intermediate Mathematics
Latin	Physics
Spanish	

The *Bulletin of Information*, obtainable without charge from the College Entrance Examination Board, contains rules regarding applications, fees, reports, and the conduct of the tests; lists of examination centers; and an application blank bound in. This application blank may be used for any College Board administration. Additional application blanks will be available at the schools for students needing more than one. Separate booklets describing the tests and giving sample questions and answers will be sent to each registered candidate at no additional cost.

Candidates should make application by mail to the College Entrance Examination Board. Students who wish to take the examinations in any of the following States, territories, or foreign areas should address their inquiries and send their applications to College Entrance Examination Board, P. O. Box 27896, Los Angeles 27, California:

Alaska	Nevada	Province of Alberta
Arizona	New Mexico	Province of British Columbia
California	Oregon	Province of Manitoba
Colorado	Utah	Province of Saskatchewan
Hawaii	Washington	Republic of Mexico
Idaho	Wyoming	Australia
Montana	Northwest Territory	Pacific Islands, including
	Yukon Territory	Japan and Formosa

Candidates applying for examination in any State or foreign area not given above should write to College Entrance Examination Board, P. O. Box 592, Princeton, New Jersey.

Each application submitted for registration must be accompanied by the examination fee. A detailed schedule of fees follows:

Scholastic Aptitude Test.	\$5.00
One, two or three hours of afternoon tests.	8.00
Writing Sample only.	2.00

There is no reduced fee for those taking morning and afternoon tests at one administration.

All applications and fees should reach the appropriate office of the Board not later than the dates specified on the next page:

For examination centers located:
in the United States,
Canada, the Canal
Zone, Mexico, or
the West Indies

in Europe, Asia,
Africa, Central and
South America,
and Australia

Date of Tests

December 2, 1961
 January 13, 1962
 March 3, 1962
 May 19, 1962
 August 8, 1962

November 4
 December 16
 February 3
 April 21
 July 11

October 14
 November 25
 January 13
 March 31
 June 20

Applications received after these closing dates will be subject to a penalty fee of two dollars in addition to the regular fee.

Candidates are urged to send in their applications and fees as early as possible, preferably at least several weeks before the closing date, since early registration allows time to clear up possible irregularities which might otherwise delay the issue of reports. Applications received at a Board office later than two weeks prior to the date of the examination cannot be guaranteed acceptance. No candidate will be permitted to register with the supervisor of an examination center at any time. Only properly registered candidates, holding tickets of admission to the centers at which they present themselves, will be admitted to the tests. Requests for transfer of examination centers cannot be considered unless these reach the Board offices two weeks prior to the date of the examination or earlier.

The Board will report the results of the tests to the institutions indicated on the candidates' applications. The college will, in turn, notify the candidates of the action taken upon their applications for admission. Candidates will not receive reports upon their tests from the Board.

Transfer Students

A few transfer students are accepted each year. Since each applicant for transfer is considered as a special case, no fixed requirements are specified. An undergraduate who is applying for transfer should provide the Admissions Office with a full list of his accepted preparatory subjects and a list of his college courses with grades received. If he has taken College Entrance Board Tests, he should arrange to have these scores sent to Haverford. He should submit a letter of recommendation from a responsible official of the college last attended. If these credentials appear satisfactory, the applicant will be invited to the College for an interview.

Advanced Standing

Students in high school who have done advanced work in one or more courses may take the Advanced Placement Tests given by the College Entrance Examination Board each May to determine eligibility for advanced placement or credit in college courses.

Financial Arrangements

Rooms

ENTERING FRESHMEN are assigned the rooms available after the other classes have made their choice. New students will be notified of the rooms assigned to them by means of a list available in Roberts Hall. The choice of rooms by other students is governed by published rules.

A deposit of \$35 is required of all new students at the time they are notified of their admission. A similar deposit is required also of those students who have not been in attendance at the College during the immediately preceding semester. This amount will be deducted from the bill for the following year. If the student fails to present himself at the beginning of the semester for which he has been enrolled, the deposit will be forfeited.

Students are expected to treat College property with the same consideration as their own. A student is held financially responsible for any damage to his room, and any damage wilfully done will be sufficient reason for requesting withdrawal from the College.

Expenses

The tuition charge for all regular students is \$1375.00 for the academic year. Tuition for special students is \$175.00 per course, per semester. The board is \$520.00, and room rent \$280.00 per year. The payment of a Unit Fee of \$125.00 per year makes it possible for the student to participate in any campus organization without an additional fee.

The room charges include heat, electric light, weekly service, and the use of necessary bedroom furniture, i.e., a bureau, table, chair, study lamp, and a bed, the linen for which is furnished and laundered by the College. Students will supply their own study furniture, blankets, and towels.

The College requires that bills rendered August 15 and January 15 for the following semester's tuition, board, room, unit fee, and deposits be paid in full before the beginning of the semester.

In order to avoid last minute congestion, it is suggested that bills be paid by mail in advance.

A non-refundable fee of \$10.00 is payable when application for admission is presented.

The Unit Fee includes the following: Student activities fee, laboratory fees,

health fee, accident insurance (a maximum of \$500.00 within one year of each accident), diploma, and psychological tests when required by the College.

When a special diet is required for medical reasons, and approved by the College Physician, a charge of \$1.50 weekly will be made, but this charge may be increased if the special foods required are unusually expensive.

The College requires Freshmen to pay a fee of \$20.00 toward the cost of the orientation week.

The College requires a \$100.00 deposit to cover the cost of books and any other incidental charges which may arise during the school year. Each incidentals account must have a balance, on June first, adequate to cover all final charges. At intervals during the year, a bill for the actual charges made will be sent to the student. If this bill, or any other indebtedness, is not paid by the end of the semester, credits will not be granted for the work performed. Any unspent balance is refunded at the end of the academic year.

No reduction or refund of the tuition charge will be made after the first two weeks of any semester. If a student withdraws before the completion of the first two weeks, there will be a complete refund of his tuition. In case of illness or absence for any reason from the College, for four weeks or more, there will be a prorated refund of board. In case of withdrawals at any time, there will be no reduction of room rent for the semester unless the same room is re-rented, in which case the withdrawn occupant will receive the amount paid to the College by the new occupant. The unit fee cannot be refunded for any reason.

College Responsibility

The College is not responsible for loss due to fire, theft, or any other cause. Students who wish to take out fire insurance may apply for information at the Office of the Comptroller.

Monthly Payments

Parents who prefer to pay tuition and other fees in monthly instalments may do so through the TUITION PLAN. Details of this plan, including charges for financing, may be obtained from the Comptroller.

Student Loan Fund

A loan fund is available for deserving students, other than members of the Freshman Class and transfer students during their first year, who may require financial assistance during their College course.

For information apply at the Office of the Comptroller.

Student Aid

In addition to the Student Loan Fund and to scholarship help, the College offers students the opportunity to work at standard rates in the Library and as clerical assistants to faculty and administrative officers of the College. Appointments are made from a list of eligible students prepared by Vice-President MacIntosh.

Scholarships

SCHOLARSHIPS are awarded on a basis of merit and individual need. While no scholarship is given for more than one year, it is the practice to continue the scholarship if a student's scholastic performance has been satisfactory and his need remains constant.

No scholarship will be given to a student whose academic standing is unsatisfactory.

No scholarship will be given to a student whose previous college bill has not been paid in full.

Candidates for freshman scholarships must file a financial statement with the College Scholarship Service, Princeton, N. J., before February 15th. Copies of the form to be used may be obtained from the applicant's high school or from the College Scholarship Service.

Students enrolled at the College must submit all preliminary correspondence and applications for undergraduate scholarships for 1962-63, together with supporting letters from parents or guardians, to Vice President MacIntosh before April 15, 1962.

It is assumed that requests for scholarships will not be made by those whose expenses can be met by their parents or from other sources.

CORPORATION AWARDS.—Four Corporation Scholars will be chosen in each class. In the senior, junior and sophomore classes the selection will be made on the basis of the highest general averages for the preceding year. In the freshman class the selection will be made after the May College Board Examinations (see page 24). Each Corporation Scholar will be awarded \$50.00. No application for these awards is necessary.

The Endowed Scholarships

It is not necessary for applicants to mention specific scholarships in their applications except in those cases where they meet the special conditions stated for the award.

I. ISALAH V. WILLIAMSON SCHOLARSHIPS.—Three scholarships, usually awarded to members of the Senior and Junior classes.

II. RICHARD T. JONES SCHOLARSHIP.—One scholarship.

III. EDWARD YARNALL SCHOLARSHIP.—One scholarship.

IV. THOMAS P. COPE SCHOLARSHIP.—One scholarship.

- V. SARAH MARSHALL SCHOLARSHIP.—One scholarship.
- VI. MARY M. JOHNSON SCHOLARSHIP.—One scholarship.
- VII. ISAAC THORNE JOHNSON SCHOLARSHIP.—One scholarship, available for a student of Wilmington College or a member of Wilmington (Ohio) Yearly Meeting of Friends.
- VIII. CASPAR WISTAR MEMORIAL SCHOLARSHIP.—One scholarship available preferably for sons of parents engaged in Christian service (including secretaries of Young Men's Christian Associations) or students desiring to prepare for similar service in America or other countries.
- IX. LOUIS JAQUETTE PALMER MEMORIAL SCHOLARSHIP.—This scholarship is awarded on application, preferably to a member of the Freshman Class who, in the opinion of a committee representing the donors and the President of the College, shall give evidence of possessing the qualities of leadership and constructive interest in student and community welfare which his friends observed in Louis Jaquette Palmer of the Class of 1894.
- X. J. KENNEDY MOORHOUSE MEMORIAL SCHOLARSHIP.—One scholarship, intended for the member of the Freshman Class who shall appear best fitted to uphold at Haverford the standard of character and conduct typified by the late J. Kennedy Moorhouse of the Class of 1900—"a man modest, loyal, courageous, reverent without sanctimony; a lover of hard play and honest work; a leader in clean and joyous living."
- XI. PAUL W. NEWHALL MEMORIAL SCHOLARSHIP.—One scholarship.
- XII. ROBERT MARTIN ZUCKERT MEMORIAL SCHOLARSHIPS.—Two or more scholarships, preference to be given to "a native of New York or Connecticut who now resides in one of those States."
- XIII. SAMUEL E. HILLES MEMORIAL SCHOLARSHIP.—One scholarship.
- XIV. CLASS OF 1913 SCHOLARSHIP.—One scholarship, preference to be given to descendants of members of the Class of 1913 who may apply and who meet the usual requirements of the College.
- XV. ISAAC SHARPLESS SCHOLARSHIP FUND.—Founded in 1941. Scholarships open to graduates of secondary schools and undergraduates of Haverford College. Awards based upon fulfillment by applicant of requirements used in selection of Rhodes Scholars to the University of Oxford. Awards granted from list submitted to Selection Committee by the Director of Admissions, subject always to final approval by the President of the College; amount variable.

XVI. CLASS OF 1917 SCHOLARSHIP.—One scholarship, preference to be given to descendants of members of the class of 1917 who may apply and who meet the usual requirements of the College.

XVII. THE GEOFFREY SILVER MEMORIAL SCHOLARSHIP.—One scholarship, available to a public school graduate in this general area who may enter Haverford.

XVIII. DANIEL B. SMITH SCHOLARSHIP.—One scholarship, awarded "in the discretion of the Faculty, as an annual scholarship for some young man needing financial aid in his College course. Preference is to be given to a descendant of Benjamin R. Smith, if any such should apply."

XIX. SARAH TATUM HILLES MEMORIAL SCHOLARSHIP FUND.—Founded November 1, 1954, by bequest of \$75,534.58 from Joseph T. Hilles, Class of 1888, in memory of his mother, Sarah Tatum Hilles, "to provide for such number of annual scholarships of \$250 each as such income shall be sufficient to create"; to be awarded by the Managers to "needy and deserving students, and to be known as 'Sarah Tatum Hilles Memorial Scholarships.'"

XX. ELIHU GRANT MEMORIAL SCHOLARSHIP FUND.—Two or more scholarships, established February 2, 1944, by Mrs. Elihu Grant "to commemorate the service to Haverford College of Dr. Elihu Grant, from 1917 to 1938 a member of the College Faculty. The income from this fund is applied to scholarship assistance to students in Humanistic studies, primarily those specializing in the study of Biblical Literature and Oriental subjects." In special circumstances the income may be utilized to assist those working for a post-graduate degree at Haverford College.

XXI. JOSEPH L. MARKLEY MEMORIAL SCHOLARSHIP.—One scholarship, awarded at the discretion of the Faculty, "on the basis of character, scholarship and financial need."

XXII. JOSEPH C. AND ANNE N. BIRDSALL SCHOLARSHIPS.—Scholarships, awarded at the discretion of the Faculty "to some student or students preparing for medicine, the selection to be based on character, scholarship and financial need."

XXIII. DANIEL E. DAVIS, JR., MEMORIAL SCHOLARSHIP.—One scholarship, awarded at the discretion of the Faculty, "on the basis of character, scholarship and financial need."

XXIV. CHRISTIAN FEBIGER MEMORIAL SCHOLARSHIP.—One scholarship, established June 13, 1946, by Mrs. Madeleine Seabury Febiger in memory of her husband, Christian Febiger, of the Class of 1900. The income of this fund

is applied in paying tuition and other college expenses of worthy, needy students.

XXV. THE W. W. COMFORT FUND.—This fund was established in 1947 by the Haverford Society of Maryland. Grants from this fund are made with the understanding that the recipient shall, at an unstated time after leaving college, repay to the fund the amount which he received while an undergraduate.

XXVI. JONATHAN M. STEERE SCHOLARSHIP FUND.—Established in December 1948 by Jonathan M. Steere, of the Class of 1890. The scholarship is intended primarily for a graduate of Moses Brown School, Providence, Rhode Island, who shall be a member of the Society of Friends.

XXVII. WILLIAM GRAHAM TYLER MEMORIAL SCHOLARSHIP.—Founded in 1949 in memory of William Graham Tyler, of the Class of 1858. Preference shall be given to students from Oskaloosa, Iowa, or from William Penn College, on the basis of character, scholarship and financial need.

XXVIII. MAX LEUCHTER MEMORIAL SCHOLARSHIP.—Established in December, 1949, in memory of Max Leuchter, father of Ben Z. Leuchter, of the Class of 1946. One scholarship, awarded at the discretion of the Faculty, "on the basis of character, scholarship and financial need."

XXIX. 1890 MEMORIAL SCHOLARSHIP FUND.—Established by a member of the Class of 1923 in memory of his father, of the Class of 1890, and in recognition of his father's friendship with the members of his class. The income from this fund is to be awarded as a scholarship by the College to a deserving student.

XXX. THE A. CLEMENT WILD SCHOLARSHIP.—Established May 14, 1951, by Mrs. Gertrude T. Wild in memory of her husband, A. Clement Wild, of the Class of 1899. The income from this fund is to be awarded as a scholarship by the College to a deserving student. Preference shall be given to an English exchange student or someone in a similar category.

XXXI. THE CHARLES McCAUL FUND.—Established in 1951 by Mary N. Weatherly. One or more scholarships which shall be "awarded to students who show special interest in the field of religion and the social sciences."

XXXII. THE CAROLINE CHASE SCHOLARSHIP FUND.—Established December 10, 1951, by Caroline Chase, daughter of Thomas Chase, one-time president of the College. This fund is an expression of Thomas Chase's "enthusiastic appreciation for its high standards of scholarship in Greek, Latin and English literature."

XXXIII. THE JONATHAN AND RACHEL COPE EVANS FUND.—Founded in 1952 by the children and grandchildren of Jonathan and Rachel Cope Evans. One half of the income of this fund is to be used for scholarships.

XXXIV. THE C. PRESCOTT KNIGHT, JR., SCHOLARSHIP.—Established by the Haverford Society of New England for a New England boy from a New England school. In the award of this scholarship a committee, composed of alumni of the New England area, will consider character and personal qualities as well as the scholastic record and need of the applicant.

XXXV. THE ROY THURLBY GRIFFITH MEMORIAL FUND.—Established in June 1952 by Grace H. Griffith, in memory of Roy Thurlby Griffith, of the Class of 1919. The income from this fund is to be awarded as a scholarship by the College, "preference to be given to boys who have no father and who are in need of financial assistance."

XXXVI. THE MORRIS LEEDS SCHOLARSHIPS.—Established in 1953 by the Board of Managers of the College in memory of Morris E. Leeds, a member of the Class of 1888 and chairman of the Board from 1928 to 1945.

XXXVII. THE CLASS OF 1904 SCHOLARSHIP FUND.—Established June 4, 1954, in commemoration of the fiftieth anniversary of the Class of 1904. The income from this fund, which was contributed by the Class and the families of its deceased members, will provide one scholarship.

XXXVIII. THE WILLIAM MAUL MEASEY TRUST.—Established in 1952 by William Maul Measey, a friend of the College, who has been deeply interested in education and who has wished to help students of high quality in the pursuit of their education.

XXXIX. THE J. HORACE COOK FUND.—Established in 1955 by a bequest under the will of J. Horace Cook, of the Class of 1881, for a scholarship, "one to be awarded each year so that there will be a student in each class receiving his tuition from this fund."

XL. THE INAZO NITOBÉ SCHOLARSHIP FUND.—Established in November 1955 under the will of Anna H. Chace, "the income to be used and applied for the education at Haverford College of a Japanese student who shall be a resident of Japan at the time of his appointment to such scholarship and for his traveling expenses from and to Japan and his living expenses during the period he shall hold such scholarship."

XLI. THE GIFFORD K. WRIGHT SCHOLARSHIP FUND.—Established in December 1955 in memory of Gifford K. Wright, of the Class of 1893.

XLII. THE SUMMERFIELD FOUNDATION SCHOLARSHIP FUND.—Established in February 1956. One scholarship, awarded at the discretion of the Faculty, "on the basis of character, scholarship and financial need."

XLIII. THE SCOTT AWARD.—Established in 1955, for a period of five years, and renewed in 1960 for an additional five years, by the Scott Paper Company Foundation. "A two-year scholarship award for the Junior and Senior years, to be given to that student who is planning to embark upon a business career and who is judged by both students and faculty as an outstanding member of the Sophomore Class."

XLIV. JACOB P. JONES ENDOWMENT FUND.—This fund was established in 1897. The donor stated: "My hope is that under the blessing and favor of God there will come from this source a revenue which shall be productive of growth and vigor in the institution as well as help at this critical period of their lives to many deserving young men of slender patrimony."

XLV. THE W. LACOSTE NEILSON SCHOLARSHIP.—Established in 1957 by the family and friends of W. LaCoste Neilson, Class of 1901, in his memory. The income is to be used for the payment of one or more scholarships at the discretion of the College, preference if possible being given to students taking scientific or practical courses rather than those in the field of the arts.

XLVI. THE KATHLEEN H. AND MARTIN M. DECKER FOUNDATION SCHOLARSHIP.—Established in 1958, the Kathleen H. and Martin M. Decker Foundation Scholarship is awarded annually to young men preparing themselves in the fields of physics, mathematics, chemistry and biology. The Scholarship Committee, in making their selections, will have regard for candidates who rank high in scholarship, leadership and character. At least one scholarship will be given each year with a maximum grant of \$1,000. The actual amount of the stipend will be determined by the financial need of the candidate.

XLVII. THE RUFUS MATTHEW JONES SCHOLARSHIP FUND.—Established in 1959 by Clarence E. Tobias, Jr., as a testimonial to Rufus Jones "and in gratitude for the excellent educational facilities Haverford provided for me and my son." The principal and income of this Fund are to be used for scholarships or loans to students majoring in Philosophy. Preference is to be given to seniors. The recipient will be selected by the Chairman of the Philosophy Department in consultation, if he desires, with his departmental associates and in accord with the usual scholarship practice of the College. The donor welcomes additions to the Fund from any who might be interested.

XLVIII. THE GEORGE KERBAUGH SCHOLARSHIP.—This fund was established in 1960 in recognition and appreciation of the leadership and personal generosity of George Kerbaugh, '10, who headed the efforts of the Triangle Society to provide additional badly needed stands for Walton Field.

George Kerbaugh's many services to the College include his chairmanship of the Committee which raised the funds for the Library addition built in the 1930's. The Board of Managers then expressed to him "its heartfelt appreciation and its sense of great obligation for a notable achievement."

The General Scholarships

In addition to the endowed scholarships, a general scholarship fund is available. Awards from this fund will be made by the committee, the scholarships varying in size and number according to the need of the applicants.

Curriculum

General

HAVERFORD is a liberal arts college. Its curriculum is designed to develop in its students the capacity to learn and understand, and to make sound judgments based on knowledge and on thought. The requirements for the degree insure the exercise of these skills in each of the broad fields of human knowledge, and their subtler development in a single field of concentration.

Bachelor's Degree

To graduate from Haverford College a student must complete successfully four years of academic work and three years of Physical Education (part of which may be replaced by work in the Arts and Service Program). Credit for a year of academic work is given to a student who has passed five courses for each of two semesters with an average of at least 60 for the Freshman year, 65 for the Sophomore year, and 70 for the Junior and the Senior years. Among the courses taken, the student must include freshman English, the courses required for his Major Department, and, during the first three years, those required under the limited electives program (see below). In each course which is required as a part of his Major program, a student must achieve a minimum grade of 65. He must also include course 100 in his Major department during the second semester of the Senior year, at the end of which he must take the Major examination in that department, and receive in it a grade of at least 70. The degree normally conferred upon all candidates meeting these requirements is that of Bachelor of Arts. Upon request by the candidate and approval by the department concerned, however, the Bachelor of Science degree will be granted to men majoring in Natural Science, Mathematics, or Engineering.

Course Intensification

Each student is required to enroll in five courses each term as described above, since the College believes that wide diversity of course experience is an important part of a Haverford education, but the College also recognizes that students may sometimes profit from the opportunity on occasion to work more intensively on a smaller number of subjects. Therefore, with the approval of his adviser, a student may, if he wishes, effect reduction in the number of different subjects he is studying at any time except in his freshman year by registering, with the instructor's permission, for double credit in one, and in unusual cases, more than one of his courses. In a double credit course the student undertakes an approved program of independent study in conjunction with a regular course or a project course and submits a paper or passes an examination based on his independent work. Such independent work is not suitable in all subjects and the instructor of the course must be the final

judge of whether or not it should be attempted. In unusual cases, a student may apply to the Academic Standing Committee for permission to pursue a program of less than five subjects without enrolling in a double credit course.

Limited Electives

To ensure breadth of distribution, every student is required to take a certain number of courses in each of four designated areas of study. This requirement must be satisfied before a student can be admitted to Senior standing. Exception may be made by agreement between the Major Supervisor and the Dean. The requirements are as follows:

1. **FOREIGN LANGUAGES:** Students whose native language is English are required to pass at least one full-year course in a foreign language above the elementary grade. For the purpose of this requirement all first year foreign language courses are considered as of elementary grade. Ordinarily this requirement shall be satisfied by the end of the sophomore year.

At the time a student is admitted to a department his major adviser, in consultation with the student and his language instructors, shall make a decision as to whether the student's projected upperclass work and special interests require him to pursue additional language study and if so what study is required.

2. **HUMANITIES:** Division of courses into (a) and (b) categories is designed to assure that each student will have experience in the two areas: philosophic and religious, and literary and aesthetic. While recognizing that each Humanities course may have some elements of both areas, the faculty has agreed that the desired objectives can be reached by requiring that each student shall pass two semester courses in each of the following categories (a) and (b):

- (a) Humanities 21-22; all courses in Philosophy except 14 and 36; all courses in Religion.
- (b) All courses in Classics numbered above 14; all courses in English numbered above 12, except English 37; all courses in French numbered above 22; all courses in German numbered above 14, except German 24; all courses in History of Art and in Music; Russian 201, 203 (at Bryn Mawr); all courses in Spanish numbered above 14.

3. **NATURAL SCIENCES AND MATHEMATICS:** The requirement may be met by passing four semester courses chosen from:

Astronomy, Biology, Chemistry, Mathematics, Physics,
Geology 101a, 101b* and Physical Science 36.

At least one of the four semester courses must be a laboratory course. Excluded from the category of laboratory courses are Biology 13, Physical Science 36, and all courses in the Department of Mathematics.

* Geology is offered at Bryn Mawr College. In order for a student to take courses at Bryn Mawr, he must meet the requirements as stated on page 45 of this catalog.

4. SOCIAL SCIENCES: The requirement may be met by passing four semester courses chosen from at least two of the following departments:

Economics, History, Political Science, and Sociology. (For purposes of this requirement, Psychology 12, 27, and 32 may be counted as courses in Sociology.)

N.B. Courses listed jointly under History and English, or History and Classics, may be used in meeting the Social Science requirement or the Humanities (b) requirement, but not both.

Courses taken in Summer School will not normally be accepted as satisfying limited electives requirements.

Free Electives

A number of courses sufficient to bring the total to forty semester courses shall be chosen by the student in consultation with his Faculty Adviser, with the understanding that the College reserves the right, through the Adviser and the Dean, to prevent unreasonable combinations of courses.

Non-Academic Electives

Three terms of Physical Education or of courses in the Arts and Service Program are required of each Freshman, Sophomore, and Junior, as described on pages 83 and 102-103. These courses must be taken in addition to the 40 semester courses of academic work required for a degree.

Major Concentration

A student may elect to major in any one of the following departments: Astronomy, Biology, Chemistry, Classical Archaeology (Bryn Mawr College), Classics, Economics, Engineering, English, French, Geology (Bryn Mawr College), German, History, History of Art (Bryn Mawr College), Italian (Bryn Mawr College), Mathematics, Music, Philosophy, Physics, Political Science, Psychology, Religion, Russian, Sociology, Spanish.

Definite requirements are stated under the name of each department on pages 49-102. During the fourth semester of his attendance each student should confer with the Major Supervisor of the department in which he wishes to major, and apply to him for written approval of a program of courses for the last four semesters. Such a program must provide for the completion, by the end of the Senior year, of approximately twelve semester courses, or the equivalent, at least six of which must be in the Major Department and the others in closely related fields. Should the student's application be rejected by the department of his first choice, he must immediately apply in another. Failure to file with the Dean, before the date specified on the College Calendar, a copy of his Major Program signed by his Major Supervisor, will entail a fine of \$5. Any student who continues delinquent in this matter will be debarred from the final examinations in his fourth semester.

Should the student's application be rejected by all the departments to which he applies, he will not be promoted.

A student who applies for permission to become a Major in any department may be rejected for *scholastic reasons only*. The College rule on this point is:

If, at the time specified for application, the average of the grades obtained by a student in the "preliminary courses"* of any department is 75 or above, the student will be accepted by that department.

If the average of the grades obtained in these courses is below 70, the student will be accepted in that department only under exceptional circumstances.

If the average of the grades obtained in these courses is 70 or above, but below 75, the decision will be at the discretion of the Major Supervisor.

A student who has been formally accepted as a Major by any department has the right to remain as a Major in that department as long as he is in College. Should he wish to change from one department to another after the beginning of his fifth semester, the change can be made only with the consent of the new Major Supervisor and the Dean.

Each Senior must take a special Major comprehensive examination (written, oral, or both) during the period scheduled for such examinations. The purpose of this examination is to promote the student's comprehension, integration and application of the knowledge acquired in the field of his major concentration, and to secure evidence of this achievement. The passing grade for this examination is 70. In case of failure, a candidate may, with the permission of his Major Supervisor, present himself for re-examination at a date (to be determined by the Major Supervisor) later than Commencement Day of the current year.

If the re-examination is taken one year later, during the regular period of Major examinations, there is no fee. But if the candidate applies for re-examination at an earlier date (involving the preparation of a special examination for one individual), and if the request is granted, the fee is \$25.

As special background for the comprehensive examination a senior shall engage in a period of study, technically called course 100, in his department of concentration during the semester preceding that examination. This period of study shall be counted as one of the five courses normally carried by the

* "Preliminary courses" are any courses the student may already have taken in the department to which he is applying. If the applicant has not already taken any courses in that department, the department may name courses in other departments which are to be regarded as "preliminary."

student during his final semester. Evaluation of the work in course 100 may be included in the grade earned by the student in his comprehensive examination.

In case of failure in the comprehensive examination a student does not necessarily repeat the term work of course 100, but follows the application procedure for re-examination as indicated above. A student may not take more than two re-examinations in the field of his major concentration.

Students taking Majors under the supervision of Bryn Mawr College will note that their course 100 may extend over more than one semester; if this is the case, credit for two courses at Haverford will be granted if the work in each semester of this course is satisfactory.

Examinations in courses in the Major subject taken in the last semester of the Senior year may be omitted at the discretion of the Major Supervisor.

Courses taken in Summer School will not satisfy Haverford course requirements for the Major unless prior written approval is granted by the Major Supervisor.

A student who has demonstrated unusual maturity and who has special interests and abilities may be permitted to arrange an *interdepartmental major*. The program of courses, the nature of the 100 course, and the nature of the comprehensive examination for an interdepartmental major are to be worked out in advance (that is, when the major is selected) by the student, with permission of the Dean, in consultation with and subject to the approval of the chairmen of the departments concerned, one of whom will be designated as Major Supervisor for that student.

In rare cases, and only for high ranking students, a *double major* may be arranged, in which the student takes the complete major in each of two departments. In order to take a double major, a student must receive permission from the Dean as well as from the chairman of each of the departments concerned.

Freshman Program

Each Freshman, on entering the College, is assigned to a Faculty member as Adviser. Normally, the student keeps the same Adviser until he chooses a Major near the end of the Sophomore year, when the Chairman of the Major Department becomes his Adviser. Assignment of Advisers for incoming students is made by the Dean, on the basis of the best evidence available to him. If, after being assigned an Adviser by the Dean, the student finds another Faculty member whom he would prefer to have as Adviser, he is

urged to inform the Dean of this preference, so that, if possible, the change can be made.

The Faculty Adviser is instructed to advise each of his freshmen advisees on a plan of study suited to his special needs; however, the faculty requires that English be taken throughout the year and strongly recommends that in all usual cases the remaining four courses be: one course in language, one course in the area of Social Science, one course in the area of Natural Science and Mathematics, and one additional course.

The courses open to Freshmen are numbered 11 to 20 in the section on Courses of Instruction. If he is qualified, a Freshman may be permitted by the department concerned and by the Dean to take more advanced courses.

A series of standard tests is administered to all entrants within the first few days of the first semester. These tests are helpful in guidance and counseling. One function of the tests is to determine which Freshmen should be recommended to take the voluntary course in Developmental Reading, which is offered each term, for no credit, to students who feel the need of establishing reading habits that will improve their comprehension and increase their speed in reading.

Each Freshman's capacity for oral expression is tested early in the academic year, and further training in speech is given to those who need it, as well as to any others who may request it.

Preparation for Professions

A large number of Haverford College students plan, after graduation, to enter upon further courses of study. As a liberal arts college, Haverford arranges its curriculum so that students who have such plans are able to meet the entrance requirements of graduate and professional schools. The College does not, however, attempt to anticipate in its own curriculum the work of any graduate or professional school. It is the conviction of the Faculty that the best preparation for graduate work is a liberal education, with sound training in basic disciplines, to which more specialized training may later be added.

A student who intends to go to a professional school is free to choose his major in accord with his principal abilities and interests, since professional schools, such as those of business administration, education, law, medicine, or theology, usually accept students on the basis of merit regardless of their choice of major and, except in the case of medical schools, without specific course requirements. The requirements of most state boards of medical licensure are such that all students who hope to be admitted to a medical school must take two semester courses, each of which must include laboratory work, in

biology (usually Biology 12 and 21), Chemistry 13, 14, 25, and 26, and Physics 13, 14.

Students who plan to go to professional schools should seek advice as early as possible from appropriate Faculty members as follows: business administration, Mr. Teaf; education, Mr. Dunathan; engineering, Mr. Holmes; law, Mr. Diamant; medicine, Mr. W. Cadbury; theology, Mr. Spiegler.

If a student plans to do graduate work in a departmental subject, such as engineering, mathematics, history, etc., he should consult as early as possible with the chairman of the department at Haverford which most nearly corresponds to the department in which he plans to work in graduate school. This adviser will be able to guide him in his selection of courses, his choice of Major (which will not *necessarily* be in the department of his intended graduate study), and other questions which may have bearing on his future.

Law schools, medical schools, and some graduate schools require applicants to take special admission tests. Arrangements for taking these tests are the responsibility of the student concerned; he can obtain information about them from the Faculty members mentioned above.

Regulations

Conflicting Courses

A student is not allowed to elect conflicting courses, except with the permission of the Dean and the two instructors concerned.

Additional Courses

Although the normal load is five courses each semester, a student who desires to do so may take additional work upon approval of his adviser and the Dean. Such approval will not normally be granted to Freshmen, but will usually be granted to a Sophomore, Junior, or Senior who requests it, if his average for the preceding semester was 80 or above. There is no charge for a sixth course taken by a student in full standing, but a fee of \$40.00 is charged for a sixth course taken to make up a deficiency.

Audited Courses

A student who wishes to audit a course should obtain the permission of the instructor. No charge is made for auditing.

Course Changes

Courses may be changed during the first week of each new semester. During that time students are free to make changes after consultation with their Advisers and the Dean.

Changes will not be permitted later except in cases where the student is known to be an excellent student and where he receives the consent of the professor to whose course he is changing and of his Adviser and of the Dean.

Special Cases

Whenever a student gives proof of special abilities, the College is prepared to lay aside such requirements of the normal program as stand between him and the development of his gifts.

The Committee on Academic Standing is empowered to act on requests for exceptions to any of the academic regulations.

Evaluation of Academic Performance

The instructor in each course submits at the end of each semester a numerical grade for each student. These grades may range from 0 to 100, the minimum passing grade for each course being 60. The grades obtained by each student are averaged together to give evidence of his overall performance during that semester.

The Committee on Academic Standing reviews students' records at intervals, and has authority to drop students from college, or to set requirements for additional work in cases of students whose work is unsatisfactory. As a rule, the Committee will drop from college Freshmen who do not receive the required minimum average of 60, Sophomores whose averages are below 65, and Juniors and Seniors whose averages are below 70. However, any student whose record is such as to justify the belief that he is not availing himself of the opportunities offered by the College may be dropped.

In a year course in which the work of the second semester depends heavily on that of the first, a student who fails the first semester but nevertheless is allowed to continue may receive credit for the first semester (although the grade will not be changed) if his grade for the second semester is 70 or above, provided that the instructor in the course states in writing to the Registrar at the beginning of the second semester that this arrangement applies.

A student who, because of special circumstances such as illness, receives a low grade in a course, may petition his instructor and the Dean for a special examination. If the request is granted, and the student takes the special examination, the grade in that examination will replace the grade originally received in the mid-year or final examination in computing the final grade for that course; the new course grade will be entered in place of the old on the student's transcript, and the semester average will be revised accordingly.

In some circumstances a student may be permitted by the Dean to drop a

course, or to take less than the normal load, and thus does not receive grades for the full five courses. The Committee on Academic Standing will review all such cases, and will specify what work the student must perform to be restored to full standing. Similarly, in the case of a student who wishes to accelerate, this Committee will specify conditions under which credit for an extra semester's or year's work will be granted.

Intercollegiate Cooperation

Because of the cooperative relationship among Bryn Mawr College, Haverford College, Swarthmore College, and the University of Pennsylvania, full-time students of any of these four institutions may, upon presentation of the proper credentials, enroll for courses in another institution of the group without additional expense.

Students desiring to take advantage of this arrangement must obtain the permission of the Dean. Permission is granted only if the equivalent of the course in question is not offered at Haverford, and there is no conflict with required appointments at Haverford. This permission is not granted to Freshmen, and is not usually granted to a student whose general average for the preceding semester has been less than 80. Exceptions may be made in case the course at the other institution is necessary for the student's Major. It is the student's responsibility to register in the selected course on registration day at the institution where the course is to be given. The course should also be entered on his registration card at Haverford.

Junior Year Abroad

Well-qualified students who request it may be granted permission to spend the Junior Year studying in a foreign country. Such permission will require approval of the student's Major Supervisor and the Dean. If the student is not a language Major, approval will also be required of the Chairman of the Department of the Language spoken in the country selected. Interested students should consult the Dean early in the Sophomore year; he will direct them to Faculty members best qualified to advise them. The program of studies must be worked out in advance; if the program is completed successfully, the College will grant credit toward the degree for the work of the Junior year. Scholarship funds may be transferred for approved study abroad.

Visitors and Lectures

Individual departments of the Faculty invite visitors to Haverford for varying periods of time to meet with members of the department and with students interested in that field. These departmental visitors, who sometimes

give public lectures, contribute considerably to the vitality of the work in the various departments.

This program has been greatly strengthened as a result of a generous bequest from the late William P. Philips. A substantial sum from this bequest is used to bring to Haverford "distinguished scientists and statesmen," whose visits may last anywhere from a few hours to a full academic year. On page 14 of this catalog is a list of the visitors brought to the campus under this bequest during the academic year 1960-1961.

The Haverford Library Lectures and the Shipley Lectures, both endowed lectureships, provide annual speakers. The endowment for the former, a gift from the estate of Mary Farnum Brown, is available "for an annual course or series of lectures before the Senior Class of the College, and other students, on the Bible, its history and literature, and as a way may open for it, upon its doctrine and its teaching." The fund for the latter was presented by Samuel R. Shipley, in memory of his father, Thomas Shipley. The income from the Shipley fund is used "for lectures on English literature." At the weekly Collection meetings of the whole College prominent visitors talk to the student body on subjects of current interest.

The Class of 1898 Lectureship was established by that class in 1948.

Graduate Study

The College is empowered to grant degrees of Master of Arts or Master of Science, but very few candidates for these degrees are currently being admitted. Scholarship aid, financed by the T. Wistar Brown fund, is occasionally granted to such candidates, but the College's present policy is more often to utilize these funds for the support of graduate students, not necessarily candidates for graduate degrees, who wish to study in fields which Haverford's position as a Quaker college makes particularly appropriate.

Inquiries about graduate work at Haverford should be addressed to the Director of Admissions.

COURSES OF INSTRUCTION

THE NUMBERING SYSTEM used in this catalog involves a two-digit number for each semester course. Courses numbered from 11 through 20, primarily Freshmen courses, are open to all students; courses numbered from 21 through 30 are open to Sophomores, Juniors and Seniors; courses numbered from 31 through 60 are open to Juniors and Seniors; courses numbered from 61 through 80 are open only to Seniors; courses numbered from 81 through 89 are project courses open to Seniors and, in exceptional circumstances, to Juniors; in each department the course in preparation for the comprehensive examination is numbered 100.

When two course numbers, followed by a single description, are joined by a hyphen, the course is a year course; a student who takes the first semester of such a course must normally take the second semester. When two course numbers followed by a single description are separated by a comma, the first semester may be taken without the second, though the two are normally taken together as a year course. In either case, the first semester course is prerequisite to the second.

Unless further designated with an *a* (first semester) or a *b* (second semester), courses with uneven numbers are given in the first semester; those with even numbers in the second.

Where a course is listed as a prerequisite for another course, a grade of 65 or better will be required in the prerequisite course, unless otherwise specified; in exceptional circumstances, however, the instructor may waive this requirement at his discretion.

Each course carries three semester hours credit, and is offered annually, unless otherwise specified.

Astronomy

PROFESSOR LOUIS C. GREEN, *Chairman*

THE DEPARTMENTAL WORK is designed to give students an understanding of and an interest in the universe in which they live. At all times in the course work the relation of astronomy to the other fields of learning is kept to the fore.

Major Requirements

Astronomy 11, 12; three courses chosen from Astronomy 41, 43, 44, 45, 46; Astronomy 81 or 82, 100; Mathematics 21; Physics 13, 14, 28. Three written comprehensive examinations of three hours each.

Requirements for Honors

All Astronomy majors are regarded as candidates for Honors. The award of Honors will be made on the basis of superior work in the departmental courses, in certain related courses, and in the comprehensive examinations.

11, 12. DESCRIPTIVE ASTRONOMY—*Four hours, including one laboratory period a week.* Mr. Green.

Our knowledge of the motions, composition, organization, and evolution of the solar system, stars, and galaxies is presented, together with explanations of the methods by which this information is obtained. The laboratory work consists of visual, photographic, and spectroscopic observations of the sun, moon, planets, stars, and nebulae. Prerequisite to Astronomy 12 is Astronomy 11 or consent of the instructor.

41. GENERAL RELATIVITY AND COSMOLOGY—Mr. Green.
(Also called Physics 41.)

The tensor calculus is developed and applied to a discussion of general relativity and cosmology. The observational and experimental evidence supporting general relativity is reviewed, and the present state of the evidence favoring expanding and steady state universes is considered. Prerequisite: Mathematics 21 and Physics 28.

Offered in 1961-62 and alternate years.

43. MAGNETOHYDRODYNAMICS—Mr. Green.

The principles of magnetohydrodynamics are developed and applied to such geophysical topics as the earth's magnetism and paleomagnetism and the Van Allen belts; to such solar-terrestrial relationships as the origin and variations of the radio, ultraviolet and cosmic ray fluxes; and to such astrophysical problems as the alignment of the interstellar dust, the presence of synchrotron radiation in certain sources and the structure and magnetic field of the galaxy. Prerequisite: Mathematics 21 and Physics 28.

Offered in 1961-62 and alternate years.

44. QUANTUM MECHANICS OF ATOMS AND MOLECULES—Mr. Green.
(Also called Chemistry 44.)

The structure and spectra of atoms and simple molecules are derived quantum mechanically. A brief demonstration of the use of group theory is included. Considerable time is devoted to the quantum mechanical explanation of the chemical bond, its ionic, covalent and metallic character, as well as its steric properties. The interpretation of laboratory and astronomical spectra is discussed. Prerequisite: Mathematics 21, Physics 13, 14 and Chemistry 13, 14.

45. ADVANCED CLASSICAL MECHANICS—Mr. Green.
(Also called Physics 45.)

The Lagrangian and Hamiltonian formulations of mechanics are developed and applied to the motions of the earth. The Hamilton-Jacobi equation is derived. Action-angle variables are demonstrated and, together with perturbation theory, are applied to the motion of natural and artificial satellites. Planetary theory is treated briefly, and galactic dynamics is considered. Prerequisite: Mathematics 21 and Physics 28.

Offered in 1962-63 and alternate years.

46. STELLAR EVOLUTION AND THE ORIGIN OF THE ELEMENTS—
Mr. Green.

The theory of stellar structure is reviewed and the problem of stellar evolution is discussed on the basis of the theoretical and observational evidence. The significance of the results for the origin of the elements is considered. Prerequisite: Mathematics 21 and Physics 21 and 28.

Offered in 1962-63 and alternate years.

- 81, 82. SPECIAL TOPICS IN ASTROPHYSICS—Mr. Green.

The content of this course may vary from year to year to suit the needs of advanced students. It may be repeated for credit. Prerequisite: Considerable maturity in Mathematics, Physics, and Astronomy.

Biology

ASSOCIATE PROFESSOR ARIEL G. LOEWY, *Chairman*

ASSOCIATE PROFESSOR MELVIN SANTER

ASSISTANT PROFESSOR IRVING FINGER

VISITING ASSISTANT PROFESSOR GEORGE L. HAGEN

LECTURER URSULA SANTER

THE BIOLOGY program is designed to give a solid foundation in general biological principles, an insight into recent developments of experimental aspects of the field, and an opportunity for a research experience in the senior year.

The courses are built up in a sequence of three stages.

- 1) Four introductory courses to be taken at the freshman and sophomore level which cover biological principles (13, 21) and biological diversity (12, 14).

- 2) Six advanced courses (31, 32, 33, 35, 37, 38) to be taken at the junior or senior level designed to create sufficient competence for research in the senior year.
- 3) Three Senior Research Tutorials (61-62, 63-64, 65-66) involving reading of current literature, laboratory research, student lectures and seminars, and a senior thesis. The topics of these research tutorials lie in the areas of principal interest of the instructors.

Major Requirements

Biology 12, 13, 21, 31, 32, either 33 or 38, either 61-62 or 63-64 or 65-66, 100; Chemistry 13, 14, 25. Where prerequisites are required for these courses, the student must achieve a grade of at least 70 unless otherwise stated, or receive the consent of the instructor to apply them as prerequisites.

The Department strongly recommends the following additional courses since they provide a minimum theoretical background for advanced work in Biology: Mathematics 11, 12 or 15, 16, Physics 13, 14, Chemistry 26, 31, 32.

Biology 100 consists of a series of seminars given by students and designed to tie together the work done in the three Senior Research Tutorials, and a written comprehensive examination at the end of the senior year.

Requirements for Honors

Since all Biology majors participate in the departmental Senior research program, they are all candidates for departmental Honors. These are awarded upon consideration of the following criteria of achievement: (a) grade average in courses, (b) Senior research and thesis, (c) performance on the comprehensive examinations, (d) performance on the Graduate Record Examination. The fee for the Graduate Record Examination will be paid by the department.

12. THE ANIMAL KINGDOM—*Four hours, including one laboratory period a week.*
Mr. Finger.

A study of the evolution of structure and function in the animal kingdom. Emphasis is also placed on contributions to general biological principles derived from experiments performed with representative species from the various phyla. One-third of the course is devoted to embryology.

13. ORGANISMS IN TIME AND SPACE—Mrs. Santer.

An introductory course dealing with the phenomenon of biological adaptation. It includes an elementary treatment of the principles of heredity and their application to population dynamics through time (evolution) and space (ecology).

14. THE PLANT KINGDOM—*Three hours. Two class periods and one laboratory period a week.* Mr. Hagen.

A study of evolutionary development in the plant kingdom and of the structure and function of the higher plants. Advanced students can do additional work in plant physiology.

21. PHYSICAL BASIS OF LIFE—*Four hours, including one laboratory period a week.*
Mr. Loewy and Mr. Santer.

An introductory course in the areas of cell biology conventionally denoted as Physiology, Biochemistry, and Biophysics. The course will attempt to give insight into the methods and subject matter of the physical-chemical approach to the study of living systems. This is a sophomore course; students who wish to postpone it to the junior year should obtain permission of the instructors at the end of the freshman year. Prerequisite: Chemistry 13, 14, or consent of the instructor.

- 31, 32. MICROBIOLOGY—*Four hours, including one laboratory period a week.*
Mr. Santer.

A course dealing with the microbial worlds of bacteria, viruses, fungi and algae. The lectures will define these various groups and describe how they carry on their life processes. Great emphasis will be placed on biochemical studies which have helped to elucidate (1) pathways of substrate metabolism, (2) biosynthetic capabilities, (3) methods of reproduction. In the laboratory the student will learn the techniques of culturing and recognizing various microorganisms and will study bacterial metabolism. Prerequisite: Biology 21; Chemistry 25 must be taken previously or concurrently.

33. GENETICS—*Four hours, including one laboratory period a week.*
Mr. Finger.

A consideration of hereditary mechanisms insuring regularity within the framework of diversity among living forms. Lectures will cover the contributions of the nucleus, cytoplasm, and environment to the development of a character and will be supplemented by laboratory experiments with the fruit fly, corn, and microorganisms. Prerequisite: Biology 13. It is recommended that Biology 31, 32 be taken concurrently.

35. READING COURSE IN EVOLUTIONARY THEORY—Mr. Finger.

The purpose of this course is to enable the student to acquaint himself with evolutionary theory, both current and past, by reading advanced textbooks, reviews and scientific journals. Prerequisite: Biology 33 and consent of the instructor.

37. DEVELOPMENTAL BIOLOGY—*Three hours, including one laboratory period a week.*

A study of the development of animal and plant structure and function. Lectures and laboratories will deal mainly with the contributions of cellular and molecular biology to an understanding of the mechanisms leading to cellular and organ differentiation. Prerequisite: Biology 12.

Not offered in 1961-62.

38. CELLULAR PHYSIOLOGY—Mr. Loewy.

The purpose of this course is to develop a theoretical basis for the study of some integrated cell functions (osmotic, electrical and contractile work). Emphasis is placed on the physics and chemistry of proteins and nucleic acids and the sub-microscopic structure of the cell. Prerequisite: Biology 21, Physics 13, 14 to be taken previously or concurrently. It is recommended that Biology 32 be taken concurrently.

61-62. SENIOR RESEARCH TUTORIAL IN COMPARATIVE BIOCHEMISTRY—
Mr. Santer.

Individual student research on various aspects of microbial metabolism. Present projects are concerned with the metabolism of chemosynthetic microorganisms. Laboratory work is supplemented with readings, written reports and seminars on advanced topics in microbiology and biochemistry. Prerequisite: Biology 31, 32.

63-64. SENIOR RESEARCH TUTORIAL IN CELLULAR ARCHITECTURE—Mr.
Loewy.

Readings from current textbooks and periodicals on structural aspects of proteins, nucleoproteins, cellular particulates and cells. Considerable emphasis is placed on techniques by which fine structure can be studied. Research in an area relating protein chemistry to cellular fine structure and cellular function. Student lectures on readings and research. Prerequisite: Biology 38.

65-66. SENIOR RESEARCH TUTORIAL IN PHYSIOLOGICAL GENETICS —
Mr. Finger.

Experiments will deal mainly with approaches to the problem of the interaction of genes and non-genic elements in determining cellular function. The experimental work will be carried out with microorganisms, especially protozoa, and experience will be gained in experimental design, culture and handling of small organisms, immunological techniques, and fractionation of cell particulates. Prerequisite: Biology 33 or permission of the instructor.

81, 82. PROJECT COURSES—Mr. Finger, Mr. Loewy and Mr. Santer.
Open only by permission of instructor.

Chemistry

PROFESSOR RUSSELL R. WILLIAMS, JR., *Chairman*

PROFESSOR WILLIAM E. CADBURY, JR.

ASSOCIATE PROFESSOR ROBERT I. WALTER

ASSOCIATE PROFESSOR COLIN F. MACKEY

ASSISTANT PROFESSOR HARMON C. DUNATHAN

ASSISTANT ELEANOR MAASS

THE SEQUENCE of courses in chemistry affords a developing knowledge of chemistry as a rational science, culminating in the exploration of a frontier of scientific knowledge. Fundamental principles and their application to the solution of scientific problems are stressed throughout and illustrated in laboratory work. The first course is designed to give a broad view of the principal concepts, methods and areas of application of the science of chemistry and is therefore well suited to provide experience in science to those primarily interested in other fields. At the same time this course provides the general preparation required for subsequent courses in the areas of inorganic, organic,

analytical and physical chemistry. The course program provides full preparation for professional work in chemistry and offers the opportunity for direct contact with research work in the senior year.

A Major in chemistry who intends to undertake graduate study in the field should include in his program courses 34, 63 and 66, together with German 13-14 and Mathematics 21, 22. This is in accord with the level of accomplishment recommended by the American Chemical Society. For the courses in chemistry needed for premedical preparation, see page 43.

Major Requirements

Chemistry 13, 14, 23, 24, 25, 26, 31, 32, one additional advanced course, and 100.

Physics 13, 14, Math. 15, 16.

The comprehensive examination will cover the general field of the chemistry courses listed above.

Requirements for Honors

Students who are considered qualified will be invited to become candidates for Final Honors in the second semester of the Junior year. Such Honors candidates will be expected to undertake a Senior laboratory research project (courses 81, 82). Accomplishment at a level superior, in both quality and quantity, to that expected in normal course work will be required. The award of Final Honors will be based on superior performance in the research project, in major courses, and in the Senior comprehensive examinations.

- 13, 14. GENERAL CHEMISTRY—*Four hours, including one laboratory period a week.* Department staff.

A study of chemical principles, beginning with the laws of chemical combination and proceeding with detailed interpretation of chemical behavior in terms of the electronic structures of atoms and molecules. Topics covered in the first semester will include: modern theory of atomic structure and its relation to the periodic system of elements, types of chemical bonds with emphasis on ionic compounds, oxidation and reduction, acids and bases, chemical equilibrium. Topics covered in the second semester will include: the nature and properties of the covalent bond, the concepts of structure, isomerism, and functional group, and a survey of the chemistry of some representative covalent compounds of various elements.

- 23, 24. INORGANIC AND ANALYTICAL CHEMISTRY—*Four hours. Two class periods and two laboratory periods a week.* Mr. MacKay.

A study of the principles, methods and factual matter of inorganic and analytical chemistry. The lectures deal with electrolyte solutions, ionic equilibria and systematic inorganic chemistry. Laboratory work will include qualitative and quanti-

tative analysis. Prerequisite: A grade of 70 or higher in Chemistry 14, or consent of the instructor.

- 25, 26. ORGANIC CHEMISTRY—*Four hours, including one laboratory period a week.* Mr. Walter and Mr. Dunathan.

A survey of the chemistry of the functional groups common in organic compounds and of the elementary theoretical basis of organic chemistry. Prerequisite: A grade of 70 or higher in Chemistry 14, or consent of the instructor.

- 31, 32. PHYSICAL CHEMISTRY—Mr. MacKay and Mr. Cadbury.

A study of the physico-chemical properties of matter, the first and second laws of thermodynamics, homogeneous and heterogeneous physical and chemical equilibrium, electrochemistry and chemical kinetics. Prerequisite: Chemistry 23, Physics 13, 14, Math. 15, 16.

34. PHYSICAL CHEMISTRY LABORATORY—*Three hours. Two laboratory periods and one lecture each week.* Mr. Williams.

Laboratory exercises in physical chemistry in the areas of thermodynamics, electrochemistry, and kinetics. Lectures on the treatment of experimental data. Prerequisite: Chemistry 31 and 32 (may be taken concurrently).

44. QUANTUM MECHANICS OF ATOMS AND MOLECULES—Mr. Green.
(See Astronomy 44.)

61. ADVANCED PHYSICAL CHEMISTRY—Mr. MacKay.

Lectures on various topics in modern physical chemistry, including atomic and molecular structure, kinetics, and nuclear chemistry. Prerequisite: Chemistry 32.

63. QUALITATIVE ORGANIC ANALYSIS—*Four hours. Two laboratory periods and two lectures each week.* Mr. Dunathan.

The identification of organic compounds with major emphasis on degradative and spectroscopic methods as applied to structure determinations. Prerequisite: Chemistry 26.

64. ADVANCED ORGANIC CHEMISTRY—Mr. Walter.

Selected topics from the fields of stereochemistry, reaction mechanisms and the structure and biosynthesis of natural products. Prerequisite: Chemistry 26.

66. ADVANCED INSTRUMENTAL METHODS—*Four hours. Two lectures and two laboratory periods a week.* Mr. Williams.

Experimental problems in physical and analytical chemistry, including optical, electro-chemical and other instrumental techniques. Prerequisite: Chemistry 34.

- 81, 82. RESEARCH PROJECTS IN CHEMISTRY—Staff.

Laboratory and library research projects in chemistry. All seniors are urged to take a one-semester library research project on a topic selected from a list furnished by the staff. The report on the project will be presented in both written and oral form.

Laboratory research projects of two semesters duration are expected of candidates for Final Honors and may be taken by other students only with the consent of the Department staff.

Classics

PROFESSOR HOWARD COMFORT, *Chairman*

ASSISTANT PROFESSOR GEORGE A. KENNEDY

THE CLASSICS DEPARTMENT offers instruction in the language, literature and civilization of the Greek and Roman peoples. Knowledge of the Classics is fundamental to an understanding and proper use of the English and Romance languages, familiarity with the Classics is an indispensable background for the Western European literary tradition, and the history and civilization of Greece and Rome provide an explanation of, and parallels to, many pressing contemporary political, economic, social and religious problems.

Principal emphasis is laid upon meeting the Greek and Roman legacy through the medium of the original languages, but courses in Classical Civilization offer opportunities to study ancient history and literature in English translation.

Two major programs offer students an opportunity either to specialize in the ancient world or to follow the Classical Tradition into its modern manifestations.

Major Requirements

Two major programs are available in this department:

A. Classics Major: six full year courses divided between Greek and Latin, of which Classics 31, 32 or 33, 34 or 81, 82 must be one; Classics 100; a written comprehensive examination.

B. Classics and the Classical Tradition Major: approval of a specific program involving the study of at least one ancient language and one modern field; four full year courses in Greek or Latin; four semester courses on the related field in other departments; a thesis, ordinarily written in connection with Classics 81, 82; Classics 100; a written comprehensive examination.

Requirements for Honors

A. Classics Major. A Classics major who is considered qualified will be invited to become an Honors candidate at the end of the first term of the Junior year. In consultation between the student and his adviser an individual reading list in Greek, Latin, and modern languages will be drawn up, adapted to the student's needs and interests. He will be examined on this list as an additional part of his comprehensive examination. Honors and High Honors will be awarded on the basis of these examinations and the student's course work.

B. Classics and the Classical Tradition Major. All students admitted to this program will be deemed Honors candidates. Honors and High Honors will be awarded on the basis of the thesis, the comprehensive examination, and the student's course work.

Courses in Greek Language and Literature

- 11-12. **ELEMENTARY GREEK**—Mr. Kennedy.
Thorough study of the elements of the language followed by reading in a number of ancient Greek authors.
- 21, 22. **INTRODUCTION TO GREEK LITERATURE**—Mr. Kennedy.
Extensive reading in Homer, lyric poetry, Euripides, and Plato with lectures and reports on the history and chief features of Greek literature. Prerequisite: Classics 11-12 or the equivalent.
- 31, 32. **GREEK LITERATURE IN THE FIFTH CENTURY**—Mr. Kennedy.
Study of Aeschylus, Sophocles, Herodotus and Thucydides or of other Greek authors as dictated by the needs of the students enrolled. Prerequisite: Classics 21 or 22 or the equivalent.
Offered in 1962-63 and alternate years.
- 33, 34. **GREEK LITERATURE IN THE FOURTH CENTURY AND LATER**—Mr. Kennedy.
Study of Demosthenes, Aristotle, and other authors as dictated by the needs of the students enrolled. Students majoring in Classics will be afforded opportunities to practice Greek composition. May be repeated for credit with change of content. Prerequisite: Classics 21 or 22 or the equivalent.
Offered in 1961-62 and alternate years.

Courses in Latin Language and Literature

- 13-14. **ELEMENTARY LATIN**—Mr. Comfort.
Basic instruction in Latin declension and conjugation; then Cicero's *First Oration Against Catiline*, nearly all the poems of Catullus, and selected Letters of Pliny.
- 15, 16. **LATIN LITERATURE**—Mr. Comfort.
Review of grammar and vocabulary; reading in Vergil and/or Cicero. Prerequisite: Classics 13-14 or two or three years of preparatory Latin.
- 17, 18. **LATIN LITERATURE**—Mr. Comfort.
Reading of Roman comedy and of authors of the Republic and Augustan Age. Prerequisite: Classics 15, 16 or four years of preparatory Latin.
- 23, 24. **INDIVIDUAL TOPICS IN LATIN LITERATURE**—Messrs. Comfort and Kennedy.
Systematic study of one or more aspects of Latin literature and Roman life. Prerequisites at the discretion of the instructor.
- 81, 82. **PROJECTS IN CLASSICS**—Messrs. Comfort and Kennedy.
Prerequisites at the discretion of the instructor.

Courses in Classical Civilization not requiring the use of Greek or Latin

- 19-20. **CLASSICAL CIVILIZATION: HISTORY AND LITERATURE**—Mr. Kennedy.
(Also called History 19-20.)
Study of the significant events and trends of ancient history and of the chief works of Greek and Latin literature in English translation.
Offered in 1962-63 and alternate years.

29. SEMINAR IN GREEK CIVILIZATION—Mr. Kennedy.

(Also called History 29.)

Reading in translation of extensive portions of the literary remains of one period of Greek civilization, together with study of the history of the age. Seminar papers will offer opportunities to individual students to emphasize either literature or history. Topic for 1961-62: The Bronze Age and Its Influence.

Offered in 1961-62 and alternate years.

30. SEMINAR IN ROMAN CIVILIZATION—Mr. Kennedy.

(Also called History 30.)

Reading in translation of extensive portions of the literary remains of one period of Roman civilization, together with study of the history of the age. Seminar papers will offer opportunities to individual students to emphasize either literature or history. Topic for 1961-62: The Early Empire.

Offered in 1961-62 and alternate years.

Economics

PROFESSOR HOWARD M. TEAF, JR., *Chairman*

PROFESSOR HOLLAND HUNTER

ASSOCIATE PROFESSOR PHILIP W. BELL

ASSISTANT PROFESSOR EUGENE SMOLENSKY

THE WORK in Economics is intended primarily to develop in students an understanding of the working of the American economy and less developed economies, to give training in the analysis of economic data, to arouse an informed interest in public affairs, and to lay the basis for the formation of intelligent economic policy judgments. The introductory courses, Economics 11 and 12, are designed to give the basic understanding of economic processes and of economic organization that should be part of a liberal education. The advanced courses also are offered as part of a program of liberal education, but are designed to meet, at the same time, the needs of men going on to graduate work in economics, business administration, or related fields. Several of the advanced courses should be of special value to men planning to enter the fields of business, law, urban planning, the foreign service, or other government work. In the advanced courses emphasis is placed on the use of source materials and on research methods in economics, and students gain experience in the preparation of analyses and reports.

In Economics 61, 81 and 82 there is wide latitude with respect both to subject matter and to course method. The specific subjects in each will vary from year to year, depending on the interests and capacities of the students.

Men expecting to major in Economics are advised to take, in the Freshman year, Economics 11 and 12, and at least two semesters of Mathematics.

Major Requirements

Economics 11, 12, 23, 24, 31, 32, 61 or 81 or 82, and 100; and two other semester courses in Economics. Economics 100 consists of readings on selected domestic and international economic problems, extending the student's work in courses previously taken and, in so far as possible, integrating the study of economics with related social sciences.

Two semesters of Mathematics and three other approved semester courses in the Social Sciences or Mathematics.

A comprehensive examination, which normally includes a written examination, an oral examination, and the preparation of a research memorandum.

Requirements for Honors

Plans for Honors work usually will be laid at the end of the Junior year. This work includes a paper of high quality, usually written in conjunction with the Senior project course or courses. At least one examiner from outside the College will participate in oral examinations of candidates for High Honors.

11. ECONOMIC EFFICIENCY IN A COMPLEX SOCIETY—Mr. Hunter and Mr. Bell.

A study of the main features of modern economic life in the United States including the following topics: (1) the resource base and technological setting; (2) the behavior of consumers and business firms; (3) price theory and problems of efficiency in the allocation of fully employed resources; (4) income, employment, and monetary theory and problems involved in providing for the full utilization of existing resources.

(Note: Section 1 of this course will treat topics in a more mathematical fashion than other sections; no particular mathematics background will, however, be required.)

12. ECONOMIC GROWTH AND WELFARE IN A WORLD SETTING—Mr. Teaf and Mr. Hunter.

Extension of the work in Economics 11 to the world economy; analysis of problems of growth and the distribution of income in developed and undeveloped countries and within the world community as a whole; problems involved in economic planning under various types of economic system.

Economics 11 and 12 together present the basic elements for an understanding of current economic problems in this country and in the world at large. Students who are planning further work in economics or other social sciences are encouraged to take both courses. Normally Economics 11 should be taken before Economics 12, although exceptions may be made with consent of the instructor in charge.

23. BUSINESS AND NATIONAL ACCOUNTING DATA ON INCOME AND WEALTH—Mr. Teaf.

A study of the fundamentals of corporate accounting and their extension to the national accounts. Emphasis is placed on the derivation of the major reports of businesses and of the national economy. Prerequisite: Economics 11, 12, or permission of the instructor.

24. MATHEMATICAL ECONOMICS AND THE USE OF EMPIRICAL DATA—Mr. Bell.

Mathematical formulation of models for solving economic problems and the use of such models in applied economic research. Material includes classical statements of optimal and non-optimal behavior of firms, households, and the economy as a whole, linear programming, input-output analysis, and elementary game theory, as well as multiple regression and correlation, and other statistical techniques employed in the empirical testing of economic models. Students in this course will learn to use high-speed electronic computing equipment for research purposes.

31. MONEY AND BANKING: THEORY AND POLICY—Mr. Smolensky.

The role and relative importance of money as a determinant of the aggregate level of income and employment, the general price level, and the level and structure of interest rates in a closed economy, are analyzed and appraised. Institutional aspects of commercial and central banks (and other financial and non-financial intermediaries), relevant for monetary policy, are studied. The problems and policies of the Federal Reserve System since the Second World War are evaluated. Prerequisite: Economics 11 and 12, or permission of the instructor.

32. GOVERNMENT FINANCE—Mr. Smolensky.

An analysis of major issues in the field of government revenues and expenditures. Topics considered include standards for government expenditures, principles of equity in taxation, fiscal policy for stability and growth, political and economic problems in the implementation of public policy. Prerequisite: Economics 11 and 12.

33. POPULATION POLICIES AND PROBLEMS—Mr. Reid.

(See Sociology 33.)

34. SOCIAL WELFARE AND PUBLIC POLICY—Mr. Somers.

(See Political Science 34.)

36. THE MODERN CORPORATION—Mr. Teaf.

An analysis of the institutional fundamentals underlying corporate decision-making: essentials of economic and legal organization, relations with securities holders, securities markets, and regulatory authorities; ethical issues surrounding corporate performance in contemporary society. Prerequisite: Economics 23.

Offered in 1961-62 and alternate years.

37. INDUSTRIAL STRUCTURE AND MARKET BEHAVIOR—Mr. Baratz.

(Also called Political Science 37.)

Theoretical and empirical analysis of the structure of industrial markets and the behavior of business firms in a competitive economy; legal restrictions on business policy; social and political implications of public regulation of private enterprises. Prerequisite: Economics 11, 12.

Offered annually at Bryn Mawr as Economics 201a.

39, 40. INTERNATIONAL RELATIONS: POLITICAL AND ECONOMIC—Mr. Glickman, Mr. Bell.

An examination of human, material, and cultural factors and their interconnection in the making of national goals and national strategies in the setting of the world

community. Concentration on major international developments since 1918, including analysis of selected problems, such as economic development, stabilization of trade and payments, arms control, settlement of disputes. Individual or group research projects required. The first term focuses on political analysis, the second term on economic analysis. Prerequisites: Political Science 11, 12 and Economics 11, 12, or permission of the instructor.

41. LABOR ECONOMICS AND LABOR RELATIONS—Mr. Teaf.
(Also called Sociology 41.)

A study of the fundamentals of the employer-employee relationship, such as wages, hours, security; the functioning of labor organizations and government; the purposes and methods of collective bargaining. Special emphasis is placed on methods of resolving industrial conflict. Prerequisite: Economics 11 and 12, or permission of the instructor.

42. THE ECONOMICS OF DEVELOPMENT—Mr. Teaf.

An examination of the economic and non-economic factors accounting for low per-capita incomes in underdeveloped economies, of the problems encountered in initiating the process of economic development, especially in non-Western societies, and of major policy issues associated with foreign aid for developing economies. The recent experience of India and China is reviewed. Short student research papers required. Prerequisite: Economics 11, 12, and two courses in Political Science or Sociology, or permission of the instructor.

43. THE SOVIET SYSTEM—Mr. Hunter.
(Also called Political Science 43.)

An analysis of the Soviet record as a case study in rapid industrialization. The evolution of major political, economic, and social institutions is reviewed; attention is given to trends and prospects. The topics examined include: the background of the 1917 Revolutions; the rise of Stalin and evolution of total government; forced industrialization and agricultural collectivization; stabilization of Soviet social organization; factors explaining wartime survival and postwar growth; evaluation of trends since 1953. Prerequisite: Four semester courses in the social sciences, or permission of the instructor.

Offered in 1961-62; not offered in 1962-63.

47. INTRODUCTION TO REGIONAL ANALYSIS—Mr. Smolensky.
(Also called Sociology 47.)

The techniques of economic location theory are developed and used to explain differences in the economic structure of regions. Problems of regional income inequality, urban-land use, population and industrial migration, and water resource management will be examined. Prerequisite: Economics 11, 12.

61. SENIOR SEMINAR

Advanced study of selected issues in (a) domestic economic theory and/or policy, (b) international economic theory and/or policy, (c) modern industrial and commercial organization. Topics will change from year to year, and will depend upon the interests of students and the faculty member conducting the seminar.

81, 82. PROJECT AND READING COURSES—Members of the Department.

Engineering

PROFESSOR CLAYTON W. HOLMES, *Chairman*

ASSOCIATE PROFESSOR THEODORE B. HETZEL

ASSISTANT, NORMAN M. WILSON

HAVERFORD gives a fundamental engineering education based on the broad, well established liberal arts program so much emphasized as needed to meet today's requirements, and which is exceptionally well suited for preparing a student for a career in engineering, business or industry.

Students not intending to enter the highly specialized fields of design and research will find the Haverford courses ample for their needs. Graduates of Haverford who have majored in engineering are admitted to the student-engineers' courses of the leading industrial companies on equal terms with graduates of engineering colleges. Those who desire more technical training before entering the active work of the profession are granted substantial credit toward advanced standing in technical institutions or are admitted to their graduate schools.

The Engineering Major courses, including the science and mathematics courses that are usual in engineering schools, combined with courses in economics, sociology, and psychology, constitute a program such as is sometimes called "General Engineering" or "Engineering Administration." In addition the limited elective requirements insure breadth in the liberal arts, and nine free electives make a flexible program providing opportunity for additional concentration in science and engineering.

The engineering courses are conducted in Hilles Laboratory of Applied Science, a modern building with mechanical and electrical laboratories and other necessary facilities. Classes are small with close student-professor relationships.

Exceptional facilities are offered by the numerous industries in the Philadelphia area that welcome our students to visit their plants and the technical societies that invite them to their meetings. Frequent field trips are made.

Major Requirements

Engineering 11, 12, 21, 22, 33, 34, 41, 42, 100, and a Departmental seminar in which each Junior presents one paper, each Senior two papers on investigations of some engineering topic. Mathematics 15, 16, Physics 13, 14, and two half-year courses in Chemistry. The problems of the comprehensive examination are comparable to those of state examinations for a professional engineer's license.

Courses in Mathematics, Physics and Chemistry will be considered preliminary courses as defined on page 40.

Requirements for Honors

Honors in Engineering are granted on the basis of superior work in courses, particularly project courses, and in Engineering 100.

11. PRINCIPLES OF ENGINEERING DRAWING AND SHOP METHODS—

Three laboratory periods a week. Mr. Hetzel and Mr. Wilson.

Two laboratory periods a week of instruction in the methods and conventions of engineering drawing and sketching: the use of instruments; orthographic, isometric, oblique and perspective drawings; intersections and developments; dimensioning. One period a week is spent in the shop working on metal-working machine tools. Two inspection trips to local industries.

12. ENGINEERING DRAWING, SURVEYING, AND SHOP METHODS—*Three laboratory periods a week. Mr. Hetzel and Mr. Wilson.*

Two laboratory periods a week of drawing and surveying: detail and assembly drawings; problems in descriptive geometry of lines and planes; a study of uniform and logarithmic graphs and of nomographs; solution of typical engineering problems; eight field exercises in plane surveying; surveying computations, drawing and mapping. One period a week is spent in the shop, machine-tool work on lathe, shaper and milling machine. Inspection trips. Prerequisite: Engineering 11.

21. KINEMATICS OF MACHINES—*One class period and two laboratory periods a week. Mr. Holmes.*

This course is an introduction to the understanding of machinery through the analysis of displacement and velocity in linkages and other mechanisms by means of diagrams and centros, the design of cams, gears and gear trains and other devices for the transmission of motion. Prerequisite: Engineering 11 or consent of the instructor.

22. ANALYTICAL MECHANICS—Mr. Holmes.

A study of forces and moments of forces; determination of forces in trusses and cranes; centroids and center of gravity; rectilinear and curvilinear motion; translation and rotation of bodies; work, power, and energy; impulse and momentum; balancing and moments of inertia. Prerequisite or parallel course: Mathematics 15, 16.

33. ELEMENTS OF ELECTRICAL ENGINEERING—*Four hours, including one laboratory period a week. Mr. Hetzel.*

Electrical and magnetic circuits, electrical measurements, theory and performance of direct-current machinery and distribution systems are studied by text assignments and problems, lecture and class discussion, and laboratory experiments. Prerequisite: Physics 13, 14, Mathematics 15, 16.

34. ELEMENTS OF ELECTRICAL ENGINEERING—*Four hours, including one laboratory period a week. Mr. Hetzel.*

This course deals with alternating-current circuits and machinery: single phase

and polyphase circuits, transformers, generators, motors, transmission and distribution systems, instruments, control systems, and an introduction to electronics. Prerequisite: Engineering 33.

41. MECHANICS OF MATERIALS—*Two class periods and one laboratory period a week.* Mr. Holmes.

A study of stress and strain, beams and columns, shafting, girders, combined stresses, etc. Inspection trips. Prerequisite: Mathematics 15, 16 and Engineering 22.

42. THERMODYNAMICS—Mr. Holmes.

Energy, gas laws, vapors; mixtures of gases and vapors; theoretical and actual thermodynamic cycles for power and refrigeration. Prerequisite: Physics 13, 14.

- 43, 44. ELECTRONICS—(See Physics 43, 44.)

- 81, 82. SPECIAL PROJECTS

Open to all students with the necessary prerequisites after consultation with the instructor. Students in Engineering are encouraged to do individual work in some special field of investigation.

The following fields of study are suggested:

FLUID MECHANICS. Mr. Holmes.

Prerequisite: Mathematics 15, 16, and Physics 13, 14.

DESIGN OF MACHINE ELEMENTS. Mr. Holmes.

Prerequisite: Mathematics 15, 16, Engineering 22, 41.

INTERNAL COMBUSTION ENGINES. Mr. Hetzel.

Prerequisite: Physics 13, 14.

English

PROFESSOR RALPH M. SARGENT, *Chairman*

PROFESSOR JOHN A. LESTER, JR., *Acting Chairman*

PROFESSOR CRAIG R. THOMPSON

ASSOCIATE PROFESSOR JOHN ASHMEAD, JR.

ASSOCIATE PROFESSOR FRANK J. QUINN

ASSOCIATE PROFESSOR EDGAR S. ROSE

ASSOCIATE PROFESSOR ALFRED W. SATTERTHWAITE

ASSISTANT PROFESSOR JAMES W. HARPER

ASSISTANT PROFESSOR GUY M. DAVENPORT, JR.

THE ENGLISH DEPARTMENT offers the opportunity to study significant formulations of the human spirit in the English language, and to do critical and creative writing.

Many students who choose to major in English intend to pursue some aspect

of the subject professionally: to proceed to graduate school, to teach literature, or to undertake a literary career. The program of the Department provides preliminary education for all these purposes. The study of English literature is recommended likewise to those students who wish to acquire a knowledge of their literary heritage, or to gain an acquaintance with the use of the English language, before entering a non-literary profession, such as law, government service, the ministry, medicine, or business. The Department welcomes such students.

English 11-12 is required of all Freshmen in the college; this course, or its equivalent, is a prerequisite to all further work in the Department. English 11-12 provides tutorial instruction in writing and an introduction to the study of literature.

Students who have difficulty in expressing themselves orally are recommended to take work in public speaking. The attention of slow readers is called to the remedial work in reading.

A central sequence of courses is arranged for students majoring in English. It consists of 23 (Renaissance) and 24 (Seventeenth Century) normally to be taken in the Sophomore year, and 31 (Eighteenth Century) and 32 (Nineteenth Century) normally to be taken in the Junior year. Courses numbered in the 60's are seminar courses, in most cases based on earlier work in the period.

Major Requirements

Three semester courses from the following: Renaissance (23), Seventeenth Century (24), Eighteenth Century (31), Nineteenth Century (32). Two other English courses chosen in consultation with the chairman of the department. Two courses numbered in the 60's (or one in the 60's and one in the 80's). English 100. Eight semester courses in all. Any one-semester course in classical literature (in Greek, Latin, or English) may be counted toward the English major.

The Comprehensive Examination in English will require a knowledge of the four major periods of English literature as provided in courses 23, 24, 31 and 32. Supporting material may be chosen from Chaucer (64), Shakespeare (33 and 62), American literature (25 and 26) and Twentieth Century (35 and 36).

Students who plan to proceed to graduate work are reminded that virtually all graduate schools require a reading knowledge of both French and German, and many of the leading ones require a knowledge of Latin also, for the Ph.D. degree in English.

Requirements for Honors

Students whose work shows superior achievement will be invited to become Honors candidates at the end of their Junior year. Candidates for Honors must achieve an over-

all average of 85 or better in English courses (including English 100) completed in their Junior and Senior years.

Each Honors candidate must submit a substantial paper which demonstrates his ability to handle critically and to present in scholarly fashion an acceptable literary subject. This paper must be in the hands of the Chairman of the Department not later than May 1st of the student's Senior year. To be accepted for Honors, this paper must, in the judgment of the English faculty, reveal superior achievement.

Final Honors are awarded on the basis of achievement in courses, an Honors project and the Comprehensive examination. High Honors are granted on the further evidence of distinction in an Oral examination.

11-12. READING AND WRITING ON HUMAN VALUES—Messrs. Ashmead, Davenport, Harper, Lester, Quinn, Rose, Satterthwaite.

Tutorial instruction in writing. Readings in the Humanities, centered on values in Western Civilization. Weekly writing, based on reading program. Two class meetings and one tutorial meeting weekly.

21. GENERAL COURSE IN ENGLISH LITERATURE—Mr. Lester.

Major figures in English Literature from Chaucer to Milton (including Shakespeare).

22. GENERAL COURSE IN ENGLISH LITERATURE—Mr. Davenport.

Major figures in English Literature from Swift to Eliot.

23. LITERATURE OF THE ENGLISH RENAISSANCE—Mr. Harper and Mr. Satterthwaite.

A critical study of poetry, prose and drama from Wyatt to Jonson, with brief attention to Shakespeare. The first in a sequence of period courses designed primarily for students intending to major in literature. Enrollment limited.

24. LITERATURE OF THE SEVENTEENTH CENTURY—Mr. Harper and Mr. Satterthwaite.

A study of English literature from the metaphysical poets to Dryden, including Milton. The second of the sequence designed primarily for those intending to major in literature. Enrollment limited.

25. AMERICAN LITERATURE TO WHITMAN—Mr. Ashmead.

Chiefly devoted to Poe, Hawthorne, Melville; Emerson, Thoreau, Whitman.

26. AMERICAN LITERATURE FROM WHITMAN TO DREISER—Mr. Ashmead.

Chiefly devoted to Whitman, Dickinson, Lanier; Twain, Howells, James; Melville, Crane, Dreiser.

31. LITERATURE OF THE EIGHTEENTH CENTURY—Mr. Rose.

A study of the major literary works of the neo-classic and early romantic movements, from Defoe to Wordsworth and Coleridge. Prerequisite: English 24, or consent of the instructor.

32. LITERATURE OF THE NINETEENTH CENTURY—Mr. Lester.

A study of major literary works of the romantic and Victorian periods, from Byron to Hardy. Prerequisite: English 31, or consent of the instructor.

33. SHAKESPEARE—Mr. Satterthwaite.
Extensive reading in Shakespeare's plays. Designed primarily for students majoring in literature. Prerequisite: English 21, 22, 23, or 24, or consent of the instructor. Enrollment limited.
35. BRITISH LITERATURE OF THE TWENTIETH CENTURY—Mr. Davenport.
Selected writers in poetry, prose and drama. Prerequisite: Two courses in English beyond 11-12.
36. AMERICAN LITERATURE OF THE TWENTIETH CENTURY—Mr. Rose.
Selected writers in poetry, prose and drama. Prerequisite: Two courses in English beyond 11-12.
37. CREATIVE WRITING—Mr. Ashmead.
Practice in writing imaginative literature. Chiefly confined to prose fiction. Regular assignments, class discussions and personal conferences. Prerequisite: Junior standing. May be repeated for credit.
- 49-50. EUROPEAN THOUGHT AND LETTERS, 1100-1600—Mr. Thompson.
(Also called History 49-50.)
History of ideas in the later Middle Ages and Renaissance, with emphasis on the relations between literature and the philosophical and religious developments of the epoch.
Authors read include Abelard, Aquinas, Dante, Petrarch, Erasmus, More, Montaigne, Hooker, Bacon, and others. Students electing the course are expected to have some antecedent knowledge of European history and a reading knowledge of Latin or of a relevant modern language.
Offered in 1962-63 and alternate years.
61. TOPICS IN NINETEENTH-CENTURY LITERATURE—Mr. Lester.
Seminar discussions and independent critical studies. Prerequisite: English 32 and consent of the instructor. Limited to nine students. Priority to Senior English majors.
62. TOPICS IN SHAKESPEARE—Mr. Satterthwaite.
Close study of a few plays. Seminar. Prerequisite: English 23 or 33 or consent of the instructor. Priority to Senior English majors.
64. CHAUCER AND THE CHAUCERIANS—Mr. Quinn.
A study of the *Canterbury Tales*, *Troilus and Criseyde*, Chaucer's prose, and the work of Henryson and Dunbar. Prerequisite: Senior standing and consent of the instructor. Seminar. Limited to nine students.
65. TOPICS IN AMERICAN LITERATURE—Mr. Rose.
Chiefly devoted to advanced studies in American literature of the Eighteenth and Nineteenth centuries. Individual work. Prerequisite: English 25, 26 or 36, or consent of the instructor. Limited to nine students. Priority to Senior English majors.
66. TOPICS IN CONTEMPORARY LITERATURE—Mr. Ashmead.
Advanced studies of contemporary literature, British and American. Individual work. Prerequisite: Four semester courses in English (beyond 11-12) or consent of the instructor. Limited to nine students. Priority to Senior English majors.

81, 82. PROJECTS—The Department.

Project courses consist of individual study and writing, under the supervision of a member of the department. They are available only to advanced students and are offered only at the discretion of individual teachers. Candidates for Honors are expected to undertake, in the last semester of their Senior year, a Project leading to the Honors paper.

French

(See Romance Languages)

General Courses

HUMANITIES 21-22. INTERPRETATION OF LIFE IN WESTERN LITERATURE

—Mr. Butman and Mr. Quinn.

A study in their entirety of selected literary and philosophic works which are great imaginative presentations of attitudes toward life. The course spans Western culture from Homer to the present, and the readings are drawn from all the major literatures of the West, in the best available translations. Stress is laid on student involvement in issues raised by these books; consequently, the class work is handled entirely by the discussion method. Prerequisite: English 11-12.

HUMANITIES 45-46. THE AGE OF ENLIGHTENMENT—Mr. Gutwirth.

An examination of the European scene in the 18th century, primarily through French, German, and English literature, and some major contributions in other fields. Individual students will be expected to take a leading part in the discussion of works falling within their major subject. Faculty consultants will be called in from time to time to lecture or participate in the discussion of specialized topics. A reading knowledge of French, German, or Latin is required. Limited to twelve students. Prerequisite: consent of the instructor.

Offered in 1961-62.

PHYSICAL SCIENCE 36. HISTORY AND PHILOSOPHY OF SCIENCE—Mr. Green.

(Also called Philosophy 36.)

This course is designed for the non-science major and the science major alike. The rise of modern science is discussed against the background of 16th and 17th century thought. The history of mechanics is carried forward to the relativity theory, and the history of optics and atomic structure leads to the quantum mechanics. The development of our ideas as to the nature of science is described and the implications of such concepts as the relativity of space and time, the indeterminacy principle, and complementarity are discussed. Prerequisite: the consent of the instructor, or a year of college mathematics.

German

PROFESSOR HARRY W. PFUND, *Chairman*

ASSOCIATE PROFESSOR JOHN R. CARY

INSTRUCTOR OTTOMAR RUDOLF

LECTURER JOACHIM MAASS

ASSISTANT HANS STRUTZKE

THE MAIN OBJECTIVE of the German courses is twofold: 1) the acquisition of the language; 2) the study of the literature and civilization of which it is the medium. The courses are planned and conducted with the aim of enabling the individual student to fulfill most effectively his prospective needs. Hence provision is made for acquiring a practical speaking knowledge of the language as well as the ability to read it for undergraduate and post-graduate research, for which in many fields it is indispensable. An appreciation of German literature from the Middle Ages to the Contemporary Period is offered in a relatively wide range of courses.

German 11-12, 13-14, and 24 are primarily language courses. German 15 stresses literature, but combines this with practice in the language. The remaining courses are devoted largely to the history of German literature from the earliest times to the present, and to the intensive study of special periods and eminent authors.

The collateral reading required in German 13-14 generally consists of works of literature but it may be done in the fields of philosophy or history or, at the discretion of the instructor, in the natural sciences.

Opportunity is given to students who complete German 11-12 or German 13-14 with distinction to advance rapidly into higher courses by passing a special examination on a prescribed program of collateral reading.

It is possible and in some cases highly desirable for a Major in German or a student otherwise interested in advanced work to take his Junior year abroad in a supervised Junior year program. Attention also is called to the opportunities offered by university summer schools in Germany, Austria and Switzerland, and to international seminars and work camps sponsored by the American Friends Service Committee and other organizations in these countries.

Major Requirements

German 22, 23-24, 26, 32, 36 and 100.

Supporting courses to be arranged in conference with the Major Supervisor.

A comprehensive examination covering: 1. The German language; 2. History of the German language; 3. German literature; 4. German history, 800-1945; and 5. A special period, literary movement, or author.

Requirements for Honors

Students who are considered qualified to become candidates for Final Honors will be required to complete one additional semester course in German beyond the minimum major requirements and to present an extensive thesis indicating thorough knowledge of one outstanding author or of a well-defined topic dealing with at least one literary period. A further requirement will be an oral examination following superior achievement in the comprehensive examinations.

- 11-12. **ELEMENTARY GERMAN**—Mr. Pfund, Mr. Cary, Mr. Rudolf and Mr. Strutzke.
Grammar, conversation and the reading of simple texts.
- 13-14. **INTERMEDIATE GERMAN**—Mr. Cary and Mr. Rudolf.
Texts of moderate difficulty but of value as literature or as contributions to the history of ideas are read both in class and as outside work. The ability to understand spoken German and to engage in simple conversation is stressed. One hour a week is devoted to grammar review and composition. Prerequisite: German 11-12 or the equivalent.
15. **INTRODUCTION TO GERMAN LITERATURE AND CULTURE**—Mr. Rudolf.
A selection of representative works in German literature from the age of Goethe to the contemporary period. Readings on various phases of contemporary German culture. The understanding of spoken German is stressed. Prerequisite: German 13-14 or the equivalent.
22. **ADVANCED COMPOSITION AND CONVERSATION**—Mr. Cary.
The acquisition of an idiomatic command of the language in writing and speaking is stressed. Works of contemporary writers such as Thomas Mann, Hesse, Kafka, Wiechert and Bergengruen form the basis of discussion. Prerequisite: German 15 or the equivalent.
- 23-24. **THE AGE OF GOETHE**—Mr. Pfund and Mr. Rudolf.
Lectures and discussions on, and readings of, the chief works of Goethe (exclusive of *Faust*), Schiller, and certain of their contemporaries with a view to an understanding of the periods of Enlightenment, Storm and Stress, Classicism, and the beginnings of Romanticism. Emphasis upon literary and aesthetic appreciation and cultural backgrounds. Prerequisite: German 15 or the equivalent.
Offered in 1961-62.
26. **THE NINETEENTH CENTURY**—Mr. Cary.
An examination of Büchner, Grillparzer, Keller, Hauptmann, and Nietzsche. Prerequisite: German 15 or the equivalent.
Offered in 1961-62 and alternate years.
28. **MODERN GERMAN LITERATURE**—Mr. Maass.
A critical analysis and aesthetic evaluation of representative works of Thomas Mann, Kafka, Rilke, Werfel and others. Lectures, discussions, reports, and one term paper. The course will be conducted in English. Admission by permission of the instructor or the Chairman of the Department.
Offered in 1962-63 and alternate years.
32. **GERMAN ROMANTICISM**—Mr. Cary.
A study of German Romanticism as a literary and philosophical school of thought. Prose, drama, and poetry of selected writers from Tieck to Heine. Prerequisite: German 23-24 or permission of the instructor.
Not offered in 1961-62.
33. **GERMAN LYRIC POETRY**—Mr. Pfund.
Lyricists from Walter von der Vogelweide to contemporary poets are read and

discussed with emphasis on Goethe, Hölderlin, the Romanticists, Mörike, George, Hofmannsthal and Rilke. Prerequisite: At least one course beyond German 15. Not offered in 1961-62.

36a. HISTORY OF GERMAN LITERATURE FROM ITS ORIGINS TO THE SEVENTEENTH CENTURY—Mr. Pfund.

Lectures in German, with collateral reading in modern German of the *Nibelungenlied*, Hartmann von Aue, Wolfram von Eschenbach, Gottfried von Strassburg, and others. Discussion, written and oral reports. Prerequisite: German 23-24 or permission of the instructor.

Offered in 1961-62 and alternate years.

37. FAUST—Mr. Pfund.

An intensive study of Goethe's *Faust* in the original. Consideration is given to kindred works in European literature. Prerequisite: At least one course beyond German 15.

Offered in 1962-63 and alternate years.

81 or 82. Mr. Pfund and Mr. Cary.

Individual work in various fields of German culture, such as literary theory, Middle High German, Baroque literature and contemporary literature. Prerequisite: At least one course beyond German 15. May be repeated for credit with change of content.

History

PROFESSOR THOMAS E. DRAKE, *Chairman*

PROFESSOR WALLACE T. MACCAFFREY

VISITING PROFESSOR CAROLINE ROBBINS

PROFESSOR CRAIG R. THOMPSON

PRESIDENT HUGH BORTON

ASSISTANT PROFESSOR JOHN P. SPIELMAN, JR.

INSTRUCTOR AVERY D. ANDREWS, II

THE COURSES IN HISTORY are designed to give some conception of the development of the civilizations which exist in Europe, in East Asia, and in the United States today. Since history is the story of what men have done, it is related to every other field in the curriculum, but the limitation of time forces a selection of those aspects of human activity which can be treated in any course. An attempt is made to give a reasonably rounded view of those developments which are deemed most important in the period under consideration as a background for understanding other subjects in the fields of the humanities and the social sciences. With a variation of emphasis in each course, caused in part by the nature of the growth of civilization in the period and in part by the amount and the kind of historical evidence which has survived, attention is given to such phases of development as the politi-

cal, constitutional, social, economic, religious, and intellectual. History 11-12 is intended to be an introductory course, and, although it is not a prerequisite for the election of any other course in the Department, it is required for those who major in History.

The study of history provides a background against which current problems of internal and external policies may be viewed to advantage. It also helps to develop critical standards for the evaluation of evidence which can often be applied in forming opinion with regard to the solution of such problems. Finally, it is useful as a foundation for professional studies not only in history but also in such subjects as public administration, journalism and law.

Major Requirements

History 11-12 and four other full year courses (or three full year courses and two half year courses) in History; History 100.

Two full year courses or their equivalent in related departments.

Majors in History must take at least one year course in each of three of the following fields: 1) Ancient History, 2) Medieval European History, 3) Modern European History, 4) American History. There will be a written comprehensive examination of three hours in one of these fields, chosen by the student as his area of concentration, and written comprehensive examinations of ninety minutes each in two other fields, one of which may be East Asian History. Majors concentrating in Ancient History are required to have a competence in Latin or Greek; those in Medieval History in French or German; those in Modern European History in French or German.

Requirements for Honors

Students deemed qualified as Honors candidates will be expected to do reading in the summer before their Senior year on a list suggested by the Department. At the beginning of the Senior year they must pass a written examination on this reading with a grade of at least 85. During the Senior year each Honors candidate must enroll in a project course. Honors will be judged on the basis of performance on the comprehensive examinations and in the project course.

11-12. INTRODUCTION TO WESTERN CIVILIZATION—Mr. Spielman, Mr. Thompson, and Mr. Andrews.

A study of Western European civilization from the fall of Rome to the present. The course will be concerned with the principal institutions and with the major intellectual currents in Western European history. Firsthand materials as well as secondary historical accounts will be the basis for conference discussion. Open to Freshmen and Sophomores only.

19-20. CLASSICAL CIVILIZATION: HISTORY AND LITERATURE—Mr. Kennedy.
(Also called Classics 19-20.)

Study of the significant events and trends of ancient history and of the chief works of Greek and Latin literature in English translation.

Offered in 1962-63 and alternate years.

- 21-22. FOUNDATIONS OF THE UNITED STATES, 1492-1865—Mr. Drake.
Lectures, reading, and discussion in American colonial and early national history.
- 23-24. MEDIEVAL HISTORY—Mr. Andrews.
A survey of European development from the fall of Rome to about 1300. Occasional lectures, extensive reading, papers and discussion, with a final examination. Admission by permission of the instructor. A reading knowledge of French or German is required.
Offered in 1961-62 and alternate years.
- 25-26. MODERN EUROPEAN HISTORY—Mr. Spielman.
The main currents of European institutional developments from the French Revolution. Class discussion with occasional lectures, frequent papers. A reading knowledge of one modern European language is required.
29. SEMINAR IN GREEK CIVILIZATION—Mr. Kennedy.
(Also called Classics 29.)
Reading in translation of extensive portions of the literary remains of one period of Greek civilization, together with a study of the history of the age. Seminar papers will offer opportunities to individual students to emphasize either literature or history. Topic for 1961-62: The Bronze Age and Its Influence.
Offered in 1961-62 and alternate years.
30. SEMINAR IN ROMAN CIVILIZATION—Mr. Kennedy.
(Also called Classics 30.)
Reading in translation of extensive portions of the literary remains of one period of Roman civilization, together with study of the history of the age. Seminar papers will offer opportunities to individual students to emphasize either literature or history. Topic for 1961-62: The Early Empire.
Offered in 1961-62 and alternate years.
- 31-32. NATIONAL DEVELOPMENT OF THE UNITED STATES, 1865 TO THE PRESENT—Mr. Drake.
A study of institutional growth, with the larger social and political issues of the present considered in their historical setting. Lectures, reading, papers, and discussion.
- 33-34. THE POLITICAL AND CONSTITUTIONAL HISTORY OF MEDIEVAL ENGLAND—Mr. MacCaffrey.
A survey of British historical development from the coming of the Anglo-Saxons to the end of the Middle Ages. Although primarily political and constitutional, the course will include consideration of major economic and social trends as well. Extensive reading both in sources and secondary works will form the basis for conference discussion.
Offered in 1962-63 and alternate years.
- 35-36. THE POLITICAL AND CONSTITUTIONAL HISTORY OF MODERN BRITAIN—Miss Robbins.
A study of British history from the end of the Middle Ages, including economic, social, and intellectual development. Extensive reading with frequent papers and class discussion.
Offered in 1961-62 and alternate years.

37-38. MODERN HISTORY OF EAST ASIA—Mr. Borton.

A study of the international, political, social, and economic developments in Eastern Asia, from the early part of the 19th century to the present. Special emphasis will be given to a comparison of the processes of modernization of China, Korea, and Japan.

43-44. HISTORIOGRAPHY—Mr. MacCaffrey.

A study of major historians from classical times to the present, followed by a survey of historical theorists and schools of the last century. Reading, discussion, and papers. Open to Juniors and Seniors with permission of the instructor. Prerequisite: History 11-12.

Offered in 1962-63 and alternate years.

45-46. GERMANY AND CENTRAL EUROPE, 1500 TO THE PRESENT—Mr. Spielman.

The evolution of modern Germany from the Protestant Reformation to the present. Particular attention will be given to the historical background of modern political and ideological conflicts in Central Europe. Extensive reading and reports will be the basis for class discussion. A reading knowledge of German is required.

Offered in 1962-63 and alternate years.

47-48. THE FRENCH REVOLUTION AND NAPOLEONIC EUROPE—Mr. Spielman.

The Old Régime and French society before 1789, the course of the Revolution in France, its consequences for the rest of Europe and the Napoleonic Empire to 1815. Class discussion and papers based on readings in the sources and interpretive works. A reading knowledge of French is required.

Offered in 1961-62 and alternate years.

49-50. EUROPEAN THOUGHT AND LETTERS, 1100-1600—Mr. Thompson.

(Also called English 49-50.)

History of ideas in the later Middle Ages and Renaissance, with emphasis on the relations between literature and the philosophical and religious developments of the epoch.

Authors read include Abelard, Aquinas, Dante, Petrarch, Erasmus, More, Montaigne, Hooker, Bacon, and others. Students electing the course are expected to have some antecedent knowledge of European history and a reading knowledge of Latin or of a relevant modern language.

Offered in 1962-63 and alternate years.

81, 82. PROJECT COURSES IN HISTORY—Mr. Drake, Mr. Thompson, Mr. Spielman, and Mr. Andrews.

History of Art

ASSOCIATE PROFESSOR JAMES FOWLE

UNDER the co-operative arrangement between the Colleges, Haverford students who wish to take advanced courses in History of Art may do so at Bryn Mawr College.

21, 22. INTRODUCTION TO THE HISTORY OF ART—Mr. Fowle and Mr. Ackerman.

This course deals with the history of Western art from its beginning in ancient Greece to modern times. Its purpose is to increase the student's visual perception of works of art, to encourage intelligent investigation of the means of artistic expression, and to provide historical perspective for an understanding of the achievements of Western architects, sculptors, and painters. Assignments include short papers on original works of art in the Philadelphia area.

Mathematics

PROFESSOR CLETUS O. OAKLEY, *Chairman*

ASSISTANT PROFESSOR JAMES O. BROOKS

ASSISTANT PROFESSOR LOUIS SOLOMON

ASSISTANT PROFESSOR DALE H. HUSEMOLLER

THE AIMS of courses in Mathematics are: (1) to promote rigorous thinking by exhibiting a systematic, deductive, intellectual discipline; (2) to present to the student the direction and scope of mathematical developments; (3) to foster technical competence in mathematics as an aid to the better comprehension of the physical, biological, and social sciences; and (4) to guide and direct the mathematics majors toward an interest in mathematical research.

The following sequences are open to qualified entering students: 11, 12, for non-specialists; 15, 16 for students in mathematics, the sciences, and economics. Students with the equivalent of one or two semesters of college calculus may be admitted to Mathematics 16 or more advanced courses on consent of the instructor.

The more advanced courses cover work in the fields of analysis, algebra, geometry, and statistics. The student majoring in the Department extends his studies into all of these areas; he may prepare for teaching in preparatory school, for graduate study leading to college teaching or research, or for statistical and actuarial work.

The sequence in analysis and algebra, Mathematics 21, 22, 31, 32, 33, 34, 63, 64, is especially suited to the needs of the physical sciences, while Mathematics 17 deals with those concepts of statistics and probability which are fundamental to the biological and social sciences.

Major Requirements

Mathematics 21, 22, 31, 32, 33, 34, 35, 36, 63, 100, and one additional semester course chosen from Mathematics 38, 42, 64, 81, 82.

Recommended collateral courses are Physics 13, 14, 28, 41, 42; Astronomy 45, 46, or for prospective Actuaries, Economics 11, 12, 23.

Prescribed parallel reading on the history and general principles of mathematics. Three written comprehensive examinations, each three hours in length.

It is recommended that facility in reading French and German be acquired early in the college course.

Requirements for Honors

A student may be awarded Honors in Mathematics on the basis of course work in Mathematics, performance on the comprehensive examinations, an additional oral examination, and general evidence of superior ability, initiative, and interest in the study of Mathematics.

11. **FRESHMAN MATHEMATICS**—Staff.

An introductory course designed to present the fundamental concepts of modern Mathematics. Topics included are: logic and the nature of mathematical proof, the number system, groups, Boolean Algebra, relations and functions.

12. **INTRODUCTION TO CALCULUS**—Staff.

Introductory course in differential and integral calculus for non-specialists. Prerequisite: Mathematics 11.

15, 16. **CALCULUS**—Staff.

Open to entering freshmen. Designed for students in Astronomy, Chemistry, Economics, Engineering, Mathematics, and Physics. Prerequisite for Mathematics 16: Mathematics 15 or consent of the instructor.

17. **INTRODUCTION TO STATISTICS**—Mr. Oakley.

This course is designed for students in the social and biological sciences. Tabular and graphic methods, frequency distributions, measures of central tendency, dispersion and correlation, tests of significance, probability and classical distributions, sampling. Lectures and computing laboratory. Prerequisite: Mathematics 12 or 16 or consent of the instructor.

21. **CALCULUS**—Staff.

Infinite series, partial derivatives, multiple integrals, elementary differential equations. Prerequisite: Mathematics 16 or consent of the instructor.

22. **LINEAR ALGEBRA**—Mr. Solomon.

Finite dimensional vector spaces and their linear transformations. Applications to the theory of matrices, coordinate geometry, and linear differential equations. Prerequisite: Mathematics 21.

31. **DIFFERENTIAL EQUATIONS**—Mr. Oakley.

Methods of solution of the standard types of ordinary differential equations with applications to problems in physical science. Prerequisite: Mathematics 21, 22.

32. **ADVANCED CALCULUS**—Mr. Oakley.

Elementary topological properties of Euclidean space; applications to real functions; Jacobians and the implicit function theorem; theorems of Green, Gauss and Stokes. Prerequisite: Mathematics 21, 22.

33. **MODERN ALGEBRA**—Mr. Solomon.

This course will provide an introduction to modern abstract algebra; the theory of groups, rings and fields. Examples to illustrate the theory will be drawn from Mathematics 22. Prerequisite: Mathematics 22.

Offered in 1962-63 and alternate years.

34. **MODERN ALGEBRA**—Mr. Solomon.
Topics in algebra will be selected from one or two of the following: Galois theory, theory of groups, theory of numbers. Prerequisite: Mathematics 33.
35. **MODERN GEOMETRY**—Mr. Husemoller.
Development of affine and projective geometry from the axioms of incidence and the theorem of Desargues. Coordinates in affine and projective geometry. Synthetic plane projective geometry, including the study of projectivities on a line, collineations in the plane and the projective theory of conics. Prerequisite: Mathematics 22.
Offered in 1961-62 and alternate years.
36. **MODERN GEOMETRY**—Mr. Husemoller.
Topics in geometry will be selected from one or two of the following: real projective geometry, finite projective planes, algebraic geometry, algebraic topology. Prerequisite: Mathematics 35.
Offered in 1961-62 and alternate years.
38. **MATHEMATICAL STATISTICS**—Mr. Oakley.
Probability theory and its applications to statistics. Prerequisite: Mathematics 22.
Offered in 1961-62 and alternate years.
42. **BOUNDARY VALUE PROBLEMS OF MATHEMATICAL PHYSICS**—Mr. Green.
(Also called Physics 42.)
Orthogonal functions, perturbation theory, the calculus of variations (integral transforms), and iterative procedures are employed to solve boundary value problems expressed in the form of differential or integral equations. Such functions as Legendre, associated Legendre, Bessel, hypergeometric, and confluent hypergeometric are employed. Attention is given to numerical and machine methods. An introduction to Sturm-Liouville theory and Hilbert space is presented. Examples are chosen from such fields as heat conduction, classical and quantum mechanics, acoustics, aerodynamics, electromagnetic theory, and radiative transfer. Prerequisite: Mathematics 31; Physics 13, 14.
Offered in 1961-62 and alternate years.
63. **ANALYSIS**—Mr. Solomon.
Complex function theory. Prerequisite: Mathematics 31, 32.
64. **ANALYSIS**—Mr. Solomon.
Topics in analysis will be selected from one or two of the following: complex function theory, measure and integration, normed linear spaces, point set topology. Prerequisite: Mathematics 63.
- 81 or 82. **SPECIAL TOPICS**—Philips visitors and members of the Department.
Project courses involving wide reading in the literature, and presentation of papers for group discussion. The content varies from year to year to suit the needs of advanced students. The course may be repeated for credit with change of content.

Music

PROFESSOR WILLIAM H. REESE, *Chairman*

ASSISTANT PROFESSOR JOHN H. DAVISON

THE COURSES offered in Music have as their objectives (1) the mastery of music materials and theory through the disciplines of counterpoint, harmony, and analysis, and subsequently (2) the stimulation of the creative energies of the student through musical composition, (3) a knowledge of the styles and literature of a great art with its interrelation of trends, influences, aesthetic principles, personalities and creative processes in musical creation over the centuries, and (4) the development of perceptive listening and refined hearing in connection with the aims stated above. The furthering and strengthening of the disciplines of music and of music history is of value both to the general student and to the student with specialized musical interest and talent. For the latter, instruction in instrument or voice can be arranged, but without the granting of academic credit. Advanced and specialized work in musicology is available in the form of supplementary courses at the neighboring colleges and university. At Haverford the program seeks in part to stimulate free composition in the vocal and instrumental forms with a view to public performance of a successfully completed work.

Major Requirements

A rounded course of study of music includes (1) work in theory, possibly embracing composition, (2) the study of music history, and (3) direct expression in music through the medium of instrument or voice. The music major will work in both academic fields of theory and history, specializing in one of them.

Required courses: For specialization in music theory and composition: Music 11 or 12, 13-14, 23, 24, 31 or 32, 81, 82, 100. For specialization in music history: Music 11 or 12, 13-14, 23 or 24, 31, 32, 81, 82, 100.

Supporting courses are to be arranged in such related fields as the humanities, history, language, and history of art as may be approved by the department.

In addition the music major is expected to reveal a proficiency and interest in instrumental playing and/or choral singing to the degree of participating actively in public performances from time to time during his college career. This will assure his having a direct experience with the living practice of a creative art.

The comprehensive examination for majors will consist of:

For those specializing in music theory and composition: (1) the completion by the candidate of a musical composition for instruments or voices in one of the larger forms, (2) an examination in music history, (3) a small composition, theoretical analysis and exercises to be completed during the examination period.

For those specializing in music history: (1) an examination in music history, (2)

analysis of a work and other exercises involving theoretical musical knowledge, (3) the completion of a paper on an assigned subject in music history.

Requirements for Honors

The Honors candidate must perform satisfactorily in all required courses for music majors, and submit (a) in the case of specialization in composition, an orchestral composition of considerable stature showing creative talent as well as technical craftsmanship, and hence worthy of a public performance, or (b) in the case of specialization in music history, a successfully completed project in musicological research, demonstrating mastery of the tools of musicological research and involving original thought, and showing ability in the creative interpretation of assorted materials bearing on a specific subject.

11. INTRODUCTION TO MUSIC HISTORY—Mr. Reese.

A study of the principal forms of musical literature of the 17th, 18th, and 19th centuries. No previous knowledge of music is required.

12. SURVEY OF MUSIC HISTORY—Mr. Reese.

A historical survey of the development of musical thought from the plainsong era to contemporary idioms. This course complements Music 11, but may be taken without it. No prerequisite.

13-14. ELEMENTARY MUSIC THEORY—Mr. Davison.

The basic materials of music—melody, scales, intervals, chords, meter and rhythm. Counterpoint in two and three parts and harmony in four parts will be studied and implemented by ear-training, dictation, and sight-singing. Previous instruction or experience in some aspect of music is desirable.

23, 24. ADVANCED THEORY AND COMPOSITION—Mr. Davison.

A continuation of Music 13-14, involving ear-training, keyboard harmony, sight-singing, analysis, and composition, along with an introductory study of strict counterpoint as exemplified in the vocal style of the sixteenth century. In the second semester pieces are written in the eighteenth-century forms of the chorale-prelude, fugue, suite, and sonatina. Successful student compositions will be performed at demonstration concerts. Prerequisite: Music 13-14 or the equivalent.

31, 32. SEMINARS IN MUSIC HISTORY—Mr. Reese and Mr. Davison.

The detailed study of certain epochs in music history or of the works of individual composers having special significance in the history of music. The content of Music 31, 32 will be altered from year to year so that a diversity of subject matter will be available. It may be repeated, for credit, with change of content. Prerequisite: Music 11 or 12 or the equivalent.

Topics for 1961-1962: Music 31. Survey of contemporary music—Mr. Davison.
Music 32. Johann Sebastian Bach—Mr. Reese.

81, 82. PROJECTS IN MUSIC—Mr. Reese and Mr. Davison.

Philosophy

PROFESSOR DOUGLAS V. STEERE, *Chairman*
PROFESSOR FRANCIS H. PARKER, *Acting Chairman*
VISITING PROFESSOR W. HARRY JELLEMA
ASSISTANT PROFESSOR PAUL J. R. DESJARDINS
LECTURER HENRY J. CADBURY

THE COURSES in Philosophy are intended first of all to acquaint students with the major currents of interpretation and reflection upon the recurring problems, such as the nature of man, the nature of the universe, the nature of the processes by which man apprehends and responds to that universe. Since these problems underlie the work of literature and furnish it with many of its most basic themes; since they underlie the presuppositions of political, sociological, and economic thought; since they reappear in the frame in which every thoughtful scientist works and affect not only the use to which his results will be put, but his very method, just as his methods have influenced in turn the formulation of the problems, the study of philosophy is an important tool in connection with work in any of these fields.

In the second place the courses in philosophy are designed to assist in integrating material presented in literature, history, the social and natural sciences, in art, and in religion in order to assist the student in drawing together what he has learned, and in approaching a more responsible, intentional, and intelligent world view with which to confront life.

The courses are so planned as to require such orientation as would be secured in either Philosophy 11 (which examines in an elementary way the great problems man confronts) or Philosophy 21-22 (which deals with these same problems as it presents the great classical philosophical thinkers chronologically) before proceeding to the more specialized philosophical disciplines such as ethics, aesthetics, logic, political philosophy, philosophy of science, philosophy of religion, and to more specialized studies of certain philosophical thinkers.

Major Requirements

Philosophy 12, 21-22, 63-64 and four other half-year courses in Philosophy. Philosophy 100.

Four half-year courses in related fields to be arranged in conference with the Major Supervisor.

A comprehensive examination in two parts; three hours on the history of philosophy and three hours on one optional field selected from topics in philosophy since 1800, or religious thought.

Requirements for Honors

Honors in Philosophy are awarded for a prearranged special study of the works of some major philosopher or work on a major philosophical problem. The usual method of testing such study is by a three hour written examination and an oral examination, but a thesis may be presented in place of the written examination. Honors will not be given unless the candidate has an average of 85 or better in the regular comprehensive examinations in Philosophy, and High Honors require a minimum grade of 90.

11. INTRODUCTION TO PHILOSOPHY—Mr. Parker, Mr. Jellema, and Mr. Desjardins.

An understanding of the nature and functions of philosophy and its relations to other fundamental human interests such as science, religion, and art is sought through a consideration of representative philosophical problems.

12. ETHICS—Mr. Jellema and Mr. Desjardins.

A study of (1) conflicts of ethical values involved in contemporary life; (2) certain classical ethical devices for resolving those conflicts; (3) the role of the individual and of the group in the realization of ethical values. Case material drawn from contemporary situations and from literature will be widely used. Discussions, lectures, and papers. Prerequisite: One semester-course in Philosophy.

14. LOGIC—Mr. Parker.

The principles of valid inference and their application to reasoning in everyday life, and in the sciences; the syllogism and other types of formal reasoning, the nature of proof, the detection of fallacies; introduction to the logic of scientific methods and to contemporary developments in symbolic logic.

21-22. HISTORY OF PHILOSOPHY—Mr. Parker, Mr. Jellema, and Mr. Desjardins.

A study of the development of philosophy with special reference to Plato, Aristotle, Descartes, Locke, Berkeley, Hume, Spinoza, Leibnitz, Kant, and Hegel. First-hand acquaintance with selected writings of these philosophers; reports, lectures, and class discussions.

23. CLASSICS OF RELIGIOUS LITERATURE—Mr. Steere.

A study which will include such books as Augustine, *Confessions*; Benedict's *Rule*; Meister Eckhart, *Sermons*; *Little Flowers* of St. Francis of Assisi; Thomas à Kempis, *Imitation of Christ*; Francis de Sales, *Introduction to the Devout Life*; Pascal, *Thoughts*; John Woolman, *Journal*; Soren Kierkegaard, *Purity of Heart*; Von Hügel, *Letters*; Bernanos, *Diary of a Country Priest*; Kelly, *Testament of Devotion*; Simone Weil, *Waiting on God*; Traherne, *Centuries of Meditation*.

Offered in 1962-63 and alternate years.

24. HISTORY AND PHILOSOPHY OF QUAKERISM—Mr. H. J. Cadbury.

The Quaker Movement is studied in relation to other intellectual and religious movements of its time, and in relation to problems of social reform. The development of the dominant Quaker conception is traced to the present day and critically examined. The course is designed for non-Friends as well as for Friends. Not open to Freshmen.

25. AESTHETICS—Mr. Desjardins.

A study of the philosophical principles underlying the creative and appreciative

aspects of art. Admission with permission of the instructor.
Offered in 1961-62 and alternate years.

28. PHILOSOPHY OF RELIGION—Mr. Steere.

A study of the basic problems which the practice and claims of religion present to a reflective mind. Not open to Freshmen. Prerequisite: Philosophy 11 or 21-22. Offered in 1962-63 and alternate years.

29b. SOME ASPECTS OF RELIGIOUS LIFE AND LITERATURE SINCE THE REFORMATION—Mr. Steere.

Thomas More and the Erasmus Tradition in England; Ignatius of Loyola and the Society of Jesus; Theresa of Avila and Spanish Mysticism; Isaac Penington and the mysticism of the Quakers; John Wesley and the Evangelical Revival; John Henry Newman and the Oxford Movement; William Temple and the ecumenical movement; Albert Schweitzer and the mission outreach; Rufus M. Jones and the religious situation of our time. Lectures, reports, class discussions.
Not offered in 1961-62.

33. NINETEENTH CENTURY THINKERS—Mr. Jellema.

Selected writings of Schopenhauer, Nietzsche, Tolstoy, and Bergson. Course content for 1961 only to focus upon Fichte, Schelling, and Hegel. Prerequisite: Philosophy 11 or 21-22.

34. RECENT AND CONTEMPORARY PHILOSOPHY—Mr. Parker.

A study of some of the outstanding recent and contemporary philosophical movements in Europe and America. Prerequisite: Philosophy 21-22.

36. HISTORY AND PHILOSOPHY OF SCIENCE—Mr. Green.

(See Physical Science 36 under General Courses.)

37. PLATO—Mr. Desjardins.

A study of a selected group of the dialogues. Prerequisite: Philosophy 21 or consent of the instructor.
Offered in 1962-63 and alternate years.

38. ARISTOTLE—Mr. Desjardins.

A study of a selection of the primary works of Aristotle. Prerequisite: Philosophy 21 or consent of the instructor.
Offered in 1962-63 and alternate years.

40. KANT—Mr. Desjardins.

Study of the primary texts with special emphasis on the First and Third Critiques. Prerequisite: Philosophy 22 or consent of the instructor.
Offered in 1961-62.

63-64. PHILOSOPHICAL SEMINAR—Mr. Parker and Mr. Jellema.

Specialized work in some restricted field of philosophic or religious thought is undertaken, the precise subject depending upon the needs of the students and the general interests of the group. Primarily designed for Seniors majoring in Philosophy and for Graduate students. Prerequisite: Philosophy 21-22; Majors unless by special arrangement. Limited to ten students.

81, 82. PROJECT COURSES—Individual consultation; supervised independent reading and research. Mr. Parker, Mr. Jellema, and Mr. Desjardins.

Physical Education

PROFESSOR ROY E. RANDALL, *Chairman*

PROFESSOR WILLIAM DOCHERTY, JR.

ASSISTANT PROFESSOR ERNEST J. PRUDENTE

COURSES in Physical Education are arranged in accordance with the plan for all-year physical training in the Freshman, Sophomore, and Junior years. The aim of this plan is to make possible active participation in athletics for the majority of students at Haverford College, with emphasis on the sports with carry-over value. Each student is required to take, during his first three years, nine terms (fall, winter, spring) of Physical Education or of certain courses in the Arts and Service Program (see pp. 102-105), with a minimum of six terms in Physical Education: three in the Freshman year, two in the Sophomore year, and one in the Junior year.

The intercollegiate program consists of varsity and sub-varsity schedules in 13 sports: Football, Soccer, Cross Country, Basketball, Fencing, Swimming, Wrestling, Cricket, Baseball, Track, Golf, Tennis and Sailing. Participation in these activities may be substituted for the Physical Education requirement.

Evidence of satisfactory physical condition is required by the department before a student is permitted to participate in any aspect of the program. A swimming test is given to all entering students. This test must be passed by all students before graduation. Swimming instruction is given in the gymnasium pool during the fall and spring.

The outdoor facilities include: Walton Field for football and track, with a 440-yard oval and a 220-yard eight lane straight-away cinder track; the Class of 1888 and Merion Fields for soccer, both of which are used for baseball and softball in the spring; a skating pond; Cope Field for cricket; an athletic field presented by the Class of 1916; a baseball field presented by the Class of 1922, used also for soccer in the fall; and thirteen tennis courts, three of which are all-weather. There are two dinghies available during the spring and fall for those (with certain exceptions) who wish to sail.

Indoor facilities include the Gymnasium and Alumni Field House. The basement of the gymnasium contains dressing rooms, showers, lockers, a swimming pool, wrestling room and training room. Through the generosity of the Class of 1928 it has been possible to provide additional locker and dressing facilities, a new stock room, and a laundry and drying room. A regulation basketball court is on the main floor, with hand ball and badminton courts. On the upper floors are dressing facilities for officials and instructors, and department offices.

Alumni Field House, donated by Alumni and friends of the College, became available in 1957 and provides ideal facilities for the further development of the Athletic program. This "indoor playing field" includes a 7-lap track, with areas for field events, a dirt area 120' by 120' for outdoor events under cover, a batting cage for baseball and cricket, nets for golf, a wooden area 120' by 120' with two basketball courts, two tennis courts, and seating capacity for 1000 spectators.

Physics

ASSOCIATE PROFESSOR WILLIAM C. DAVIDON, *Chairman*

ASSOCIATE PROFESSOR FAY AJZENBERG-SELOVE

LECTURER THOMAS A. BENHAM

ASSISTANT SAMUEL M. V. TATNALL

COURSES in Physics are intended to acquaint students with fields of knowledge important to our civilization, to train them in analytical thinking, to give them an appreciation of scientific methods, and to help them gain first-hand experience and insight into the methods of experimental investigation. For the student with professional aims in science, the Department offers courses leading to a strong major in Physics which equips a man to enter graduate school.

Students of astronomy, experimental biology, chemistry, engineering, mathematics, medicine and other sciences will find the foundation offered by Physics 13, 14 and Physics 21 of great value. Physics 13, 14 is ordinarily taken in the Sophomore year after Freshman mathematics but Freshmen with adequate preparation in High School mathematics may be admitted after consultation with the instructor. Students who plan to major in Physics are advised to take Physics 13, 14 in their Freshman year.

Sound knowledge of mathematics is essential. Ability to understand and use the calculus is assumed in most of the advanced courses. The Department desires to cultivate in its Major students independence of thought and initiative at progressive levels of maturity; to that end, a sequence of courses following Physics 13, 14 has been arranged, culminating in Physics 81, 82. The latter offers opportunity to conduct an extended individual investigation with training in the mastery of theory and experiment, and with emphasis upon independent work and the ability to express oneself clearly both orally and in writing on the subject of investigation. Physics 81, 82 is not, however, limited to students majoring in Physics; it may be elected by others after consultation.

Major Requirements

Physics 13, 14, 21, 28, 33-34, 81, 82, 100 and two other semester courses in Physics. Mathematics through differential equations.

A written comprehensive examination on physics treated comprehensively, designed to test each individual's ability to correlate his knowledge.

Students who desire to combine a Major in Physics with advanced work in some other related department may do so by special arrangement between the two departments concerned. In such cases a program is mapped out with some modification of the requirements normally expected of a Major in a single department.

Requirements for Honors

The granting of Honors in Physics will be based upon excellence (an average of 85 or better) in course work, the quality of performance in the Senior project course (Physics 81, 82), the results of an oral examination on the thesis and related topics in Physics 82, and the comprehensive examinations (Physics 100). High Honors in Physics will be awarded only to those majors who have performed in a superior fashion in meeting all of these requirements.

- 13, 14. GENERAL PHYSICS—*Four hours, including one laboratory period a week.*

Mr. Davidon, Mrs. Selove, Mr. Tatnall.

This is the basic course for work in physics, engineering, chemistry or other sciences. Mechanics, sound, heat, electricity, and light are studied with the help of problems, laboratory experiments, lecture demonstrations, and discussion. This course is commonly taken in the Sophomore year, but qualified Freshmen are admitted after consultation. Algebra and trigonometry are essential. Prerequisite: Mathematics 12 or 16, or consent of the instructor.

21. ATOMIC AND NUCLEAR PHYSICS—*Four hours, including one laboratory period a week.* Mrs. Selove.

A course of lectures, experiments, discussion and reading emphasizing developments in modern physics: the fundamental constants of physics, topics in relativity, low temperature and solid state physics, an introduction to quantum mechanics, optical and X-ray spectroscopy and other atomic phenomena. In addition nuclear phenomena will be discussed; nuclear reactions, accelerators and detectors of nuclear particles, nuclear models and nuclear energy. Prerequisite: Physics 13, 14 and Mathematics 16, or consent of the instructor.

25. PHYSICAL OPTICS AND ATOMIC SPECTRA—*Four hours, including one laboratory period a week.*

A study of the principles of physical optics illustrated by such phenomena as interference, diffraction and polarization, and including an introduction to Maxwell's Equations. Also a treatment of spectroscopy, the study which furnishes information as to structure of atoms. Prerequisite: Physics 13, 14 and Mathematics 21.

Not offered in 1961-62.

27. THERMODYNAMICS—Mr. Davidon.

The physical significance and quantitative properties of heat, temperature, entropy, and related concepts are developed from the fundamental assumptions of thermo-

dynamics concerning the conservation and degradation of energy, together with corresponding statistical considerations. Prerequisites: Physics 13, 14, Mathematics 21.

Offered in 1961-62.

28. MECHANICS—Mr. Davidson.

Analytical mechanics, treating the statics, kinematics, and dynamics of particles and rigid bodies. Discussion and problems on the application of calculus, differential equations and vector methods to mechanical systems, including an introduction to Lagrange's equations. Prerequisite: Physics 13, 14; Mathematics 21.

33-34. ELECTRICITY AND MAGNETISM—*Four hours, including one laboratory period a week.* Mr. Benham.

A course of lectures, readings, and laboratory experiments designed to familiarize the student with precision electrical measurements. Solutions of electrostatic problems, Gauss's theorem, potential, capacitance, magnetic circuits, transient and alternating current, and the laws of the electromagnetic field, are among the topics treated. Prerequisite: Physics 13, 14 and Mathematics 21; Mathematics 31 must be taken previously or concurrently.

41. GENERAL RELATIVITY AND COSMOLOGY—Mr. Green.

(Also called Astronomy 41.)

The tensor calculus is developed and applied to a discussion of general relativity and cosmology. The observational and experimental evidence supporting general relativity is reviewed, and the present state of the evidence favoring expanding and steady state universes is considered. Prerequisite: Mathematics 21 and Physics 28.

Offered in 1961-62 and alternate years.

42. BOUNDARY VALUE PROBLEMS OF MATHEMATICAL PHYSICS—Mr. Green.

(Also called Mathematics 42.)

Orthogonal functions, perturbation theory, the calculus of variations (integral transforms), and iterative procedures are employed to solve boundary value problems expressed in the form of differential or integral equations. Such functions as Legendre, associated Legendre, Bessel, hypergeometric, and confluent hypergeometric are employed. Attention is given to numerical and machine methods. An introduction to Sturm-Liouville theory and Hilbert space is presented. Examples are chosen from such fields as heat conduction, classical and quantum mechanics, acoustics, aerodynamics, electromagnetic theory, and radiative transfer. Prerequisite: Mathematics 31; Physics 13, 14.

Offered in 1961-62 and alternate years.

43. ELECTRONICS—CIRCUIT THEORY—*Four hours, including one laboratory period a week.* Mr. Benham.

This course includes the study of resonant circuits, coupled circuits, filter networks and impedance matching. Laboratory experiments are designed to give the student experience in the relation of theory to practice. Prerequisite: Physics 33-34, or Engineering 33-34, or consent of instructor at spring registration.

44. ELECTRONICS—VACUUM TUBE CIRCUITS—*Four hours, including one laboratory period a week.* Mr. Benham.

Electron theory, study and application of vacuum tubes, and problems pertaining to design and analysis of typical circuits employing them. Prerequisite: Physics 33-34 or Engineering 33-34, or consent of instructor.

45. ADVANCED CLASSICAL MECHANICS—Mr. Green.

(See Astronomy 45.)

Offered in 1962-63 and alternate years.

48. MODERN PHYSICS—Mrs. Selove.

The physics of photons, nucleons, nuclei and elementary particles; their behavior and interactions. Prerequisite: Physics 21, 28, 33-34.

81, 82. PHYSICS SEMINAR—Mr. Davidon, Mrs. Selove, and Mr. Benham.

Individual work in selected fields of investigation. Each student pursues comprehensive reading and sustained experimental work on a problem. Weekly meetings are held with the members of the Department to discuss the progress in each field of investigation. Each student becomes familiar with problems other than his own and gains experience in presenting his own work. Students who major in Physics are expected to take two semesters, but the course is not restricted to Major students. Qualified Juniors or Seniors may, by permission, elect either one semester or two. Also, the course may be repeated for credit with change of content. The granting of Honors depends heavily upon performance in this course.

Political Science

PROFESSOR HERMAN M. SOMERS, *Chairman*

ASSOCIATE PROFESSOR ALFRED DIAMANT

ASSISTANT PROFESSOR HARVEY GLICKMAN

THE POLITICAL SCIENCE CURRICULUM is designed to give students an understanding of political organization and political forces in modern society, to provide knowledge and a basis for insight and judgment on the problems involved in the relationship of the individual to government and of governments to one another. The broad areas of study include: analysis of political theory in relation to its institutional environment; comparison and appraisal of different types of governments and political organization; American political institutions; and problems of international relations.

The tools of analysis include theory and experience. The purposes and the actual workings of political institutions and political groups are appraised. In advanced courses, emphasis is placed upon individual research and analysis—practice in location, organization, and presentation of data, and independent judgment.

The courses are designed primarily for a liberal arts education and are intended to create intelligent and lasting interest and participation in the

formulation of public policy. The training will also serve the practical needs of those men contemplating professional careers which involve an understanding of modern government, such as law, journalism, and the public service.

Men majoring in political science are expected to understand the relationship of this field to other social studies and also the purposes and methods of the social sciences as a whole. They are thus expected to take supporting courses in economics, history, and sociology.

Major Requirements

Political Science 11, 12, and eight other courses in Political Science distributed among the areas of study indicated above.

Four approved semester courses in other social sciences.

A comprehensive examination covering the major fields of study. The comprehensive examination includes seminar participation.

Requirements for Honors

Candidates for Honors are required to submit a thesis of independent research or original theoretical analysis, and to pass an oral examination on the thesis as well as on general attainment in the field. The award of Honors will be determined on the basis of the thesis, the oral examination, quality of course work, and performance in the Senior comprehensive seminar and examinations. The thesis may obtain course credit by registration in Political Science 81 or 82.

11, 12. FREEDOM AND CONTROL: Theory and Practice of Modern Government—Staff.

A comparative analysis of selected foreign and American political institutions and policies with reference to their theoretical foundations. The first semester concentrates on the development of main currents of western political thought, studied primarily through the original works of theorists who had major influence in shaping modern ideas and practice. Particular attention is given to the central issue of reconciling individual freedom with social control. The second semester examines the issues by comparing structure, administration, and policy in several countries.

23. AMERICAN CONSTITUTIONAL DEVELOPMENT

A study of the development of the American constitution through judicial interpretation, related to the changing political, social and economic problems of the United States. Definitive Supreme Court cases shaping the course of American development will serve as the primary basis of study. Prerequisite: Political Science 11, 12.

Offered in 1962-63 and alternate years.

26. COMPARATIVE GOVERNMENT—Mr. Diamant.

An advanced, functional analysis of the political, social and economic institutions of contemporary European governments and the British Commonwealth. Emphasis

is placed on the changing role of government in society, on the political and economic forms that have been developed to meet new needs, and on the impact of these new developments on traditional political theory. Prerequisite: Political Science 11, 12.

27. AMERICAN POLITICAL THOUGHT—Mr. Diamant.

An approach to understanding the enduring significance of the American heritage through the study of outstanding political and social writings. Prerequisite: Political Science 11, 12.

Offered in 1961-62 and alternate years.

31. PARTIES, PRESSURES, AND PUBLIC OPINION—Mr. Somers.

A study of political parties, their organization and techniques, as an instrument of democratic government; the relationship of private associations and interest groups to the party system; the role of such associations in a democracy; and the struggle for power with relation to public opinion and theories of the public interest. Prerequisite: Political Science 11, 12.

32. POLITICAL BEHAVIOR—Mr. Glickman.

A study of the role of personality, culture, mass media of communication, leadership, voting behavior, and organizational influences upon political life. Prerequisite: Political Science 11, 12.

34. SOCIAL WELFARE AND PUBLIC POLICY—Mr. Somers.

(Also called Economics 34 and Sociology 34.)

A study of the economic and political problems encountered in attempts to cope with the hazards of modern industrial society, including unemployment, disability, illness, and old age. Primary attention is given to the American social security system. Alternative methods of prevention and alleviation, and their economic and social consequences, are examined. Prerequisite: Either Political Science 12, Economics 11 or Sociology 11.

Offered in 1961-62 and alternate years.

37. GOVERNMENT AND BUSINESS

(See Economics 37. Industrial Structure and Market Behavior.)

38. GOVERNMENT ADMINISTRATION AND PUBLIC POLICY—Mr. Somers.

A study of administration as a central element of contemporary society with special reference to the problems involved in the decision-making process; administrative theory and process in relation to the formulation and execution of public policy. The approach is analytical rather than descriptive and is based, in large measure, on case studies. Prerequisite: Political Science 11, 12.

Offered in 1962-63 and alternate years.

39, 40. INTERNATIONAL RELATIONS: POLITICAL AND ECONOMIC—Mr. Glickman, Mr. Bell.

An examination of human, material, and cultural factors and their interconnection in the making of national goals and national strategies in the setting of the world community. Concentration on major international developments since 1918, including analysis of selected problems, such as economic development, stabilization of trade and payments, arms control, settlement of disputes. Individual or group

- research projects required. The first term focuses on political analysis, the second term on economic analysis. Prerequisite: Political Science 11, 12 and Economics 11, 12, or permission of the instructor.
41. **POLITICS AND GOVERNMENT IN DEVELOPING AREAS**—Mr. Glickman.
A study of political ideologies, processes and institutions in selected areas of Africa, Asia, Latin America and the Middle East. The impact of the West on traditional societies, the growth and effect of nationalism, and the problems of stability and popular government are emphasized. Prerequisite: Political Science 11, 12.
 43. **THE SOVIET SYSTEM**—Mr. Hunter.
(See Economics 43.)
 46. **AMERICAN FOREIGN POLICY**—Mr. Glickman.
A survey of the evolution of contemporary American foreign policy interests and critical analysis of the forces which shape policy. Emphasis is placed on research papers treating specific areas or issues. Prerequisite: Political Science 12.
 49. **THE POLITICS OF LOCAL GOVERNMENT**—Mr. Diamant.
An analysis of the political and administrative issues arising out of the changing character of community government. Problems of obsolete political boundaries, the development of independent multi-governmental authorities, the proliferation of quasi-governmental units, and the expanding conflicts and shifting relations of local, state and federal governments are examined. Seminar. Limited enrollment. Prerequisite: Political Science 11, 12.
Offered in 1962-63 and alternate years.
 56. **INTERNATIONAL ORGANIZATION**
An analysis of the development of international institutions and their role in security and social economic fields. Particular attention is given to case studies in United Nations operations and consideration is given to proposals for regional and world government. Prerequisite: Political Science 11, 12.
Not offered in 1961-62.
 64. **MODERN POLITICAL AND SOCIAL THEORY**—Mr. Diamant.
A study of leading political doctrines which have had a major influence in shaping the issues and conflicts of the modern world. Prerequisite: 1 year of Political Science, Economics, or Sociology.
 - 81, 82. **INDEPENDENT PROJECT COURSES**—*Individual consultation; supervised independent reading and research.* Members of the Department.
Research papers and oral reports on special topics based upon the individual interests of advanced students. Enrollment only by permission of the instructor. Theses of candidates for Honors may be written for credit in this course. May be taken as semester or year course by arrangement with the instructor.

Psychology

ASSOCIATE PROFESSOR DOUGLAS H. HEATH, *Chairman*

ASSOCIATE PROFESSOR GEORGE A. HEISE

ASSISTANT PROFESSOR SYDNEY I. PERLOE

THE PSYCHOLOGY PROGRAM is designed to give the student an understanding of the empirical approach to the study of human behavior, a knowledge of the psychological principles which have emerged from empirical research, and an acquaintance with the problems to which contemporary research is directed. The student is encouraged to make active use of his knowledge in two ways: first, by developing through laboratory courses a working familiarity with the experimental method as applied in psychology, ordinarily culminating in an individual research project in the junior or senior year; second, by attempting to apply known psychological principles to an understanding of the behavior of individuals and groups in all areas of human endeavor.

Major Requirements

Twelve semester courses in Psychology and related fields, including Mathematics, chosen in consultation with the chairman of the department. This program may include Bryn Mawr courses Psychology 301a, Physiological Psychology, and Psychology 305b, Comparative Psychology.

Students contemplating a Psychology major are advised to complete at least one or two semester courses beyond the introductory course by the end of the sophomore year, and the basic laboratory work by the end of the junior year.

The comprehensive examination will test the student's mastery of the core areas of systematic psychology. Such areas include methodology and statistics, learning, perception and judgment, social psychology, personality theory, motivation, and historical developments in psychology. A bibliography of basic readings in these areas is available upon request.

Requirements for Honors

The award of Departmental Honors signifies that a student has maintained a consistently high standard of performance in the work of his major program, has completed a substantial independent research project of high quality, and has passed with distinction a written and, at the discretion of the department, an oral comprehensive examination on his work in Psychology. Honors candidates should plan to take at least one semester of Psychology 81 or 82 prior to the spring semester of their Senior year.

12. GENERAL PSYCHOLOGY—Messrs. Heath, Heise, and Perloe.
(Also called Sociology 12.)

An introduction to basic concepts and methods in the fields of learning, cognitive processes, personality, and social psychology. Emphasis will be placed on independent reading, papers, and project work throughout the course.

21. PERCEPTION AND JUDGMENT—*Three class hours and laboratory.* Mr. Perloe. Analysis of the major theoretical positions and relevant research in perception and judgment. In addition to discussions on the traditional topics of form and space perception, perceptual learning, perceptual constancies and the effects of frames of reference on judgment, attention will be given to the effects of motives, values and personality upon perception. Prerequisite: Psychology 12.

23. **PRINCIPLES OF LEARNING**—*Three class hours and laboratory.* Mr. Heise.
A consideration of important concepts and research findings in the psychology of learning, organized around a systematic analysis of the learning process and a discussion of theoretical issues of historical or contemporary importance. The relation of learned and unlearned behavior, the neurophysiological basis of learning, probabilistic theories of learning, the role of learning in language behavior, and the implications of learning principles for educational practice are also discussed. Prerequisite: Psychology 12.
Not offered in 1961-62.
25. **PRINCIPLES OF MOTIVATION**—*Three class hours and laboratory.* Mr. Heath.
Following an analysis of the major components of the motive sequence, the course will intensively review the experimental literature on sexual behavior, anxiety, aggression, and the achievement need. The basic experimental methods for measuring need states will be illustrated in the laboratory. Independent experimental research will be stressed. Prerequisite: Psychology 12.
Not offered in 1961-62.
27. **SOCIAL PSYCHOLOGY**—Mr. Perloe.
(Also called Sociology 27.)
An intensive consideration of the individual aspects of social behavior. Initial attention will focus on the processes involved in individuals' definitions and interpretations of social situations. Following this, the effects of culture and social structure upon personality and the effects of personality on social behavior will be discussed. Prerequisite: Psychology 12.
28. **DEVELOPMENTAL PSYCHOLOGY**—Mr. Heath.
The seminar will be organized around the major developmental problems of childhood and adolescence and the types of controls used to master these problems. Consideration will also be given to the psychological aspects of marriage, religion, and old age. Prerequisite: Psychology 29 and consent of instructor.
29. **THEORIES OF PERSONALITY**—Mr. Heath.
The personality theories of Freud, neo-analysts and the existentialists will be studied by extensive readings from original sources. Class discussion and papers will concentrate on clarifying and evaluating the merits of the different theories. Prerequisite: Psychology 12.
32. **COMMUNICATION, PROPAGANDA, AND ATTITUDE CHANGE**—Mr. Perloe.
A detailed analysis of research on the factors which persuade people to change their attitudes and opinions. Some of the determinants of attitude change which will be considered are: order of presentation of opposing arguments, use of fear-arousing appeals, prestige of communicators, and personalities of communication recipients. Attention will also be paid to the effects of "brain washing," forced racial integration, and other behavioral determinants of attitude change.
- 35, 36. **CONTEMPORARY ISSUES IN PSYCHOLOGY**—Messrs. Heath, Heise, Perloe.
A joint faculty-student seminar investigating a limited problem area, the topic of

which may vary from semester to semester. The course may not be offered regularly. It may be taken a second time with a change in topic. Prerequisite: Psychology 12 and consent of the instructor.

38. **SYSTEMS AND THEORIES OF PSYCHOLOGY**—Mr. Heise.

The course includes historical background of modern psychology, principles of general scientific methodology pertinent to psychology, and an examination of representative theories and systems in various areas of psychology. Prerequisite: Psychology 12 and one additional course in Psychology.

51, 52. **RESEARCH TOPICS IN PSYCHOLOGY**—Messrs. Heath and Perloe.

This course will introduce students to the problems of hypothesis formation and definition, experimental design, data analysis and report writing by means of seminars, closely supervised experimental research projects, and oral reports. Students must have selected the general topical area within which they wish to do research prior to admission to the course. In preparation for this course, students may wish to take a one semester Independent Project course to review systematically the area within which they wish to do research. Prerequisite: Psychology 21, 23, or 25, and consent of the instructor.

81, 82. **PROJECTS IN PSYCHOLOGY**—Staff.

DEVELOPMENTAL READING—Mr. F. D. Comfort.

This program offers an opportunity for students to improve their reading proficiency. Few students, if any, have realized their real potentiality in this field. Through a series of conferences, methods of developing higher level reading skills are explored. Any student who is willing to concentrate upon it, while reading for his various subjects, will find that he can increase his speed and comprehension. Also, by giving thought to the different purposes of reading, and practicing methods appropriate to each purpose, he may increase his adaptability, making each type of reading more effective. No credit.

Religion

ASSISTANT PROFESSOR GERHARD E. SPIEGLER, *Chairman*

THE COURSES IN THIS DEPARTMENT are designed to acquaint the student with the Judeo-Christian background of Western civilization, to examine the role played by this tradition in Western life and thought from the biblical period to the present day, and to offer an introductory examination of the major religious traditions of East and West.

Major Requirements

Religion 11, 12; two from 21, 22, 31; 23, 24; 81 or 82, and 100.

Philosophy 21-22 and four other semester courses in related departments chosen with the consent of the adviser.

Special study of a selected field chosen from 1) Bible, 2) Early Christian thought, 3) Medieval and Reformation Religious thought, 4) Modern Jewish and Christian thought; election of related courses in other departments to supplement this study; a

thesis in the area chosen for special study, to be written in connection with Religion 81 or 82.

Comprehensive examinations of three hours each covering two fields chosen from the above and History of Religions, but exclusive of the field of the thesis.

Requirements for Honors

Students who are considered by the department as qualified to become candidates for Final Honors will be invited to do so in the second semester of the Junior year. Honors work will require independent reading, project courses, and superior work on a thesis and in Religion 100.

11, 12. INTRODUCTION TO THE BIBLE—Mr. Spiegler.

An examination of the literature of the Bible, its historical context and its theological content. In the first semester the Old Testament is studied. Problems concerning the nature of biblical authority and methods of interpreting the Bible are raised. The second semester deals with the books of the New Testament and the growth of the early Church. Extensive reading in the Bible; lectures and discussion; frequent examinations.

21. EARLY CHRISTIAN THOUGHT—Mr. Spiegler.

The development of Christian thought from the end of the first century to the fall of the Roman Empire. Extensive reading of primary sources; lectures and discussion; frequent papers and a final examination. Prerequisite: Religion 11 or 12; Philosophy 11 or 21-22 (21-22 may be taken concurrently).

22. MEDIEVAL AND REFORMATION RELIGIOUS THOUGHT—Mr. Spiegler.

Examination of the major theological systems of the Middle Ages; background and development of Reformation thought. Extensive reading in primary sources; lectures and discussion; frequent papers and final examination. Prerequisite: Religion 21 or permission of instructor.

23, 24. HISTORY OF RELIGIONS

A survey course examining the major religious traditions of East and West. The first semester begins with a brief study of primitive religions and an examination of the major concepts employed in the study of religion. Study of the religions of India: Hinduism, Buddhism, Jainism, Sikhism. In the second semester the religions of the Far East and Near East are studied: Taoism, Confucianism, Shinto; Zoroastrianism, Islam. Lectures and discussion, report papers, final examination. Prerequisite: Religion 11 or 12 and permission of the instructor.
Not offered in 1961-62.

31. MODERN JEWISH AND CHRISTIAN THOUGHT

A study of the development of Jewish and Christian thought in the period from the Renaissance to the present day. Special attention is given to problems raised by scientific approaches to the study of religion. An historical examination of the sources of contemporary theology will be made, and selected works of contemporary theologians will be read. Occasional lectures; discussion; frequent papers and final examination. Prerequisite: Religion 11 or 12 and permission of instructor.
Not offered in 1961-62.

33. **THE THEOLOGY OF THE LIBERAL MOVEMENT.**—Mr. Spiegler.
A detailed examination of selected writings of F. Schleiermacher, A. von Harnack, and E. Troeltsch. Attention will be given to major interpretations and criticisms of the liberal movement. Prerequisite: Consent of the instructor.
Offered in 1961-62.
34. **MAJOR TRENDS IN CONTEMPORARY RELIGIOUS THOUGHT**—Mr. Spiegler.
An examination of methods and issues in the writing of Barth, Wieman, H. R. Niebuhr and others. Prerequisite: Consent of the instructor.
Offered in 1961-62.
- 81, 82. **PROJECT COURSES**—Mr. Spiegler.
Individual work elected by the student from the areas of Bible, History of Jewish and Christian Thought, History of Religions. Limited to six students with priority to senior majors. Prerequisite: Religion 11 or 12 and one course above elementary level.

Romance Languages

PROFESSOR MARCEL M. GUTWIRTH, *Chairman*

PROFESSOR MANUEL J. ASENSIO

ASSOCIATE PROFESSOR BRADFORD COOK

ASSISTANT PROFESSOR ENGLISH SHOWALTER, JR.

ADMISSION of new students to all French and Spanish courses except French 11-12 and Spanish 11-12 is contingent upon placement examinations administered by the Department prior to the opening of such courses.

Opportunity is given to students who complete French 11-12, Spanish 11-12 or Spanish 13-14 with distinction to advance rapidly into higher courses by passing a special examination in September on a prescribed program of vacation study.

Residence in the French and Spanish Houses and participation in the Cercle français and Club español afford an opportunity for supplementary oral practice.

Students who might profitably spend their Junior year in France or Spain are encouraged by the Department to apply for admission to the institutions sponsoring foreign study groups.

Students majoring in Romance Languages are encouraged to spend a summer in France or in a Spanish speaking country. Foreign summer schools and projects sponsored by the American Friends Service Committee and other organizations offer exceptional opportunities in this regard.

FRENCH

THE PROGRAM in French is designed to give the student some facility in handling the French language, by elucidation and review of fundamentals, by

a progressive course of readings, constant practice in hearing, speaking, writing French. Through the study of French history the student is further made aware of the circumstances that have given rise to French civilization and the institutions that shaped its unfolding. Through the masterpieces of French literature, which he is then ready to approach, by close study of style and structure, of moral and artistic intentions he is led to enlarge his understanding of the human heart—as well as of the mind—and to heighten his perception of artistic achievement. A reading in the original of the works of major figures like Pascal, Molière, Balzac, Flaubert, Proust, moreover, will perfect his acquaintance with some of the best in his own heritage, the culture of the West.

Major Requirements

French 31, 32, 33, 34, 41, 42, and 100.

Supporting courses to be arranged in individual conference with the Major Supervisor.

Comprehensive Examination.

Requirements for Honors

Honors in French will be awarded on the basis of consistently distinguished work in the literature courses—including at least one project course—and of a grade of 90 or better on the comprehensive examinations. High Honors will be determined by a further oral examination.

11-12. INTRODUCTION TO FRENCH LANGUAGE AND THOUGHT—Mr. Cook and Mr. Gutwirth.

Pronunciation and intonation; grammar, with oral and written exercises. Reading, in the second semester, of easy texts of literary merit.

13-14. THE FRENCH NATION—Mr. Cook and Mr. Showalter.

The purpose of the course is to acquaint the student with French civilization by making him familiar with the broad outline of French social, political, and literary history. Representative literary works are read, in conjunction with a standard French history text. Grammar review, *dictées*, short written compositions, classes conducted in French. Prerequisite: French 11-12 or the equivalent.

21. DICTION AND COMPOSITION IN FRENCH—Mr. Showalter.

Intensive language work in a small class. Grammar review, compositions, pronunciation drill, oral reports. The work will be centered on literary topics (e.g., the contemporary theatre), but the emphasis will be on perfecting linguistic performance. Prerequisite: permission of the Department.

22. EXPLICATION DE TEXTES—Mr. Showalter.

An introduction to the study of French literature by the method of intensive analysis of style and structure applied to the several *genres*. Prose and poetry, essay and fiction drawn from a variety of periods will come under scrutiny. Prerequisite: French 21 or the equivalent.

31. THE CLASSICAL AGE—Mr. Cook.
Readings in the French XVIIth century, from Pascal's *Pensées* to La Bruyère's *Caractères*, with special attention to the flowering of the classical drama. Prerequisite: French 22 or the equivalent.
Offered in 1961-62 and alternate years.
32. THE TWENTIETH CENTURY—Mr. Gutwirth.
Three generations, those of Gide, Malraux, and Sartre, will be examined in representative novels, plays, essays, and poems. Prerequisite: French 22 or the equivalent.
Offered in 1961-62 and alternate years.
33. NINETEENTH CENTURY LYRIC POETRY
The lyrical rebirth of the 19th century: Hugo, Baudelaire, Rimbaud, Verlaine, Mallarmé. Prerequisite: French 22 or the equivalent.
Offered in 1962-63 and alternate years.
34. THE NOVEL FROM LACLOS TO PROUST
The rise of the modern novel in France from the late 18th to the early 20th century, with particular attention to Balzac, Stendhal, Flaubert, Zola, and Proust. Prerequisite: French 22 or the equivalent.
Offered in 1962-63 and alternate years.
41. ADVANCED TOPICS IN FRENCH LITERATURE
1961-62. Diderot. Mr. Gutwirth.
1962-63. Montaigne.
Prerequisite: consent of the instructor.
42. ADVANCED TOPICS IN FRENCH LITERATURE
1961-62. Proust. Mr. Cook.
1962-63. Baudelaire.
Prerequisite: consent of the instructor.
- 81, 82. SPECIAL PROJECTS IN FRENCH LITERATURE—Mr. Gutwirth, Mr. Cook, and Mr. Showalter.
This course offers the student of French literature an opportunity to probe more deeply and more independently into a problem or into an area in which he is particularly interested. The nature of the course will therefore vary to suit the needs of each individual student.

SPANISH

The courses offered in Spanish are designed to give the students a thorough knowledge of the Spanish language and an understanding of Spanish and Spanish-American thought and culture. Elementary Spanish and Intermediate Spanish are primarily language courses, with emphasis on grammar, reading, and conversation. Even in these elementary courses the approach corresponds to the liberal tradition of the College, placing emphasis on the human value of the language, and its importance in international and continental solidarity and understanding. The elementary courses are followed by general courses

in civilization and literature, as the basis for the more advanced courses covering special periods, works, and authors in Spanish and Spanish-American literatures.

Major Requirements

Spanish 21-22; 23-24, 81 or 82, and 100.

History of Spain and Spanish America, as a background for literature.

Supporting courses to be arranged in individual conference with the Major Supervisor.

Comprehensive Examination.

Requirements for Honors

Honors in Spanish are awarded to students who consistently show high quality work in their literature courses and undertake study beyond the normal requirements. Every Honors student must complete at least one project course. A minimum grade of 90 is required in the comprehensive examinations. High Honors are awarded on the basis of a further oral examination.

11-12. ELEMENTARY SPANISH—Mr. Asensio.

Grammar, with written and oral exercises; reading; thorough drill in conversation.

13-14. INTERMEDIATE SPANISH—Mr. Asensio

Review of grammar, with written and oral exercises; composition, reading and conversation. Prerequisite: Spanish 11-12 or the equivalent.

15-16. INTRODUCTION TO HISPANIC CIVILIZATION—Mr. Asensio.

Geographic, cultural, and historical background. Emphasis is laid on basic attitudes underlying the Spanish and Spanish-American culture pattern and contrasting with characteristic American attitudes. Lectures, reading, discussion, written reports. Prerequisite: Spanish 13-14 or the equivalent.

Not offered in 1961-62.

21-22. INTRODUCTION TO SPANISH LITERATURE—Mr. Asensio.

A survey of Spanish literature from the beginnings to modern times; lectures, written and oral reports. Prerequisite: Spanish 13-14 or the equivalent.

Offered in 1962-63 and alternate years.

23-24. INTRODUCTION TO LATIN-AMERICAN LITERATURE—Mr. Asensio.

A survey of Latin-American literature from the Colonial period to modern times; lectures, written and oral reports. Prerequisite: Spanish 13-14 or the equivalent. Offered in 1961-62 and alternate years.

33. SPANISH LITERATURE OF THE GOLDEN AGE—Mr. Asensio.

Cervantes, Lope de Vega, Tirso de Molina, Calderon; lectures, written and oral reports.

Not offered in 1961-62.

81, 82. SPECIAL TOPICS IN SPANISH LITERATURE—Mr. Asensio.

Reading and lectures; written and oral reports. This course may be repeated, with change of content, for full credit.

Russian

ASSOCIATE PROFESSOR FRANCES DE GRAAFF, *Chairman*

THE COURSES in Russian are designed to offer the students the opportunity to learn to read and speak Russian and to achieve an understanding of the thought and culture of pre-revolutionary as well as contemporary Russia. Russian 11-12 and 21-22 are primarily language courses. The elementary course teaches the basic grammar and enough vocabulary to enable the student to speak and understand simple Russian. The intermediate course introduces the student to the Russian literary language; also some newspaper articles and other contemporary material are read.

Students who have completed Russian 21-22 can continue with the more advanced courses offered at Bryn Mawr College.

Major Requirements

(Courses numbered above 100 are offered at Bryn Mawr College.)

Students majoring in this field will be required to take:

8 semester courses in Russian language and literature: 11-12, 21-22, 201, a 300 course chosen from 301, 302, 303, 304, in addition to the 100 course.

4 semester courses in Russian history and institutions: History 208 (History of Russia); Political Science 43 (The Soviet System).

Other related courses, including Russian 203, (Russian Literature in Translation) will be arranged in individual conference with the Major Supervisor.

A comprehensive examination on the Russian language, a special period of Russian literature, and Russian history.

Requirements for Honors

Honors in Russian will be awarded on the basis of consistently high quality work in literature, and a research paper. High Honors will be awarded on the basis of further oral examination.

11-12. ELEMENTARY RUSSIAN—*Five periods a week.* Miss de Graaff.

Russian grammar, conversation, and reading. This course meets five times a week with corresponding reduction in outside preparation; three hours credit.

21-22. INTERMEDIATE RUSSIAN—*Four periods a week.* Miss de Graaff.

Grammar review, reading in Russian classics and contemporary materials, conversation. Prerequisite: a grade of 70 or higher in Russian 12, or the equivalent.

Sociology and Anthropology

PROFESSOR IRA DE A. REID, *Chairman*

ASSOCIATE PROFESSOR A. PAUL HARE

VISITING ASSOCIATE PROFESSOR ROBERT C. WILLIAMSON

THE CURRICULUM in Sociology and Anthropology is designed to develop the student's understanding of the social structure, the social process, and the social relationships of human societies. The subject matter deals with man, his groups, his organizations, and his communities. Courses are offered for those who would make these subjects their area of major interest as well as for those students who wish to study behavioral science methods or such specific subjects as populations, the family, small groups, and the urban community. Complementary and supplementary courses in Sociology and Anthropology are offered in conjunction with Bryn Mawr College.

Major Requirements

A major program in Sociology and Anthropology has a prerequisite of Sociology 11, 21, and 22. Students are advised to take these courses in their Freshman and Sophomore years. The program requires in addition the satisfactory completion of the following courses:

- a. Sociology 33, 35, 49, 81 or 82, 100.
- b. two additional courses in Sociology and/or Anthropology selected from the offerings below or from those at Bryn Mawr College.
- c. two courses selected from the Departments of Economics, Political Science, and Psychology, subject to the approval of the Major Supervisor.

Mathematics 17 is suggested but not required.

A comprehensive examination and a research paper designed to test the student's knowledge as well as his ability to integrate and utilize the subject matter of the behavioral sciences are required in the Senior year.

Students who wish to take a major program with primary emphasis on Anthropology should consult the Chairman of the Department.

Requirements for Honors

Candidates for Final Honors in Sociology and Anthropology will be required to maintain an average of 85 or over in their major courses, to complete two research papers, one during the Junior year, another during the Senior year, and to pass with distinction a comprehensive examination.

11. **INTRODUCTORY SOCIOLOGY**—Mr. Reid and Mr. Hare.

A basic course designed to acquaint the student with the essential points of view about human groups and their behavior, the more important information which sociologists have discovered about groups, the research procedures used, and the basic methods of the field.

12. **GENERAL PSYCHOLOGY**—Messrs. Heath, Heise, and Perloe.
(See Psychology 12.)

21, 22. **SOCIAL RESEARCH**—Mr. Hare.

An analysis of classic and significant studies in the fields of social sciences with a view toward understanding the methods, tools, techniques, and hypotheses of

social research. Studies will demonstrate the use of statistical, case, historical, and other research procedures. Sociology 22 will introduce principles and practices in computer analysis in the social sciences. Individual projects. Prerequisite: Sociology 11, or introductory courses in the other social sciences.

27. SOCIAL PSYCHOLOGY—Mr. Perloe.

(See Psychology 27.)

33. POPULATION POLICIES AND PROBLEMS—Mr. Reid.

(Also called Economics 33.)

A study of the restrictive, expansive and eugenic aspects of national population policies as they are related to demographic theory. Special reference is given to the problems of fertility and mortality, density, immigration, and food supply. Prerequisite: Sociology 11 and 21.

Offered in 1962-63 and alternate years.

34. SOCIAL WELFARE AND PUBLIC POLICY—Mr. Somers.

(See Political Science 34.)

35. THE SOCIOLOGY OF SMALL GROUPS—Mr. Hare.

Theoretical and experimental analyses of the structure and interaction systems of small social groups. Special attention is given to the methodologies of sociometry and field theory and their relevance for economic, political, and social situation analysis. Prerequisite: Sociology 21.

37. THE FAMILY—Mr. Reid.

A study of the institutions designed to guarantee the perpetuation of the group and its cultural heritage in comparative societies. The course will analyze functions, forms and processes of the institutions of marriage and the family. Individual projects. Prerequisite: Sociology 11.

38. THE MODERN URBAN COMMUNITY—Mr. Williamson.

A study of the social and spatial aspects of modern urban community organization as influenced by personal, technological, ecological, economic and political factors. Special attention is given to the problems and processes of planning. Individual projects. Prerequisite: Sociology 11 and 21.

40a. RACE AND ETHNIC GROUPS IN THE MODERN WORLD—Mr. Reid.

An analysis of the secularization of the world's peoples and the contemporary "minorities" situations in the world; how these situations arise; how they are perpetuated. Special attention is given to theories and methods of analysis. Individual projects. Prerequisite: Sociology 11.

41. LABOR ECONOMICS AND LABOR RELATIONS—Mr. Teaf.

(See Economics 41.)

45b. SOCIAL DISORGANIZATION AND DEVIANT BEHAVIOR—Mr. Hare.

An analysis of the theories and problems of social disorganization as they relate to conformity and deviancy in human behavior. The course will be based on a series of specially designed case studies dealing with the situations and roles of the gambler and the speculator, the migrant and the vagrant, the sexual deviant, the

alcoholic and the drunkard, the spectator and the performer, the delinquent and the criminal, the conscientious objector and the radical. Discussions, field trips, reports. Prerequisite: Permission of the instructor.

47. INTRODUCTION TO REGIONAL ANALYSIS—Mr. Smolensky.

(See Economics 47.)

49. SOCIAL THEORY—Mr. Bloom.

Analysis of the theoretical work of several classical and modern thinkers. (This course is given at Bryn Mawr College as Sociology 302a.)

52. ISSUES IN SOCIETY—Mr. Williamson.

This seminar is designed to treat a sociological situation of current or potential importance, emphasizing the nature and problems of social fact, social values and the social process. This course may be repeated for credit. Prerequisite: Permission of the instructor.

- 81, 82. PROJECT AND READING COURSES—*Individual consultation; supervised independent reading and research*—Staff.

Research papers and reading courses on special topics based upon the individual interests of advanced students. Theses for majors in the Department may be written for credit in this course. Admission is subject to the consent of the Chairman. Required of all Sociology-Anthropology majors. Prerequisite: Permission of the Department.

Offerings in Anthropology at Bryn Mawr College

ANTHROPOLOGY 101. MAN, CULTURE, AND SOCIETY—Miss De Laguna.

ANTHROPOLOGY 203a. PRIMITIVE CULTURE—Miss Goodale.

ANTHROPOLOGY 203b. PRIMITIVE SOCIETY—Miss Goodale.

ANTHROPOLOGY 209b. THE AMERICAN INDIAN—Miss De Laguna.

Spanish

(see Romance Languages)

Arts and Service Program

THE FACULTY OF HAVERFORD COLLEGE adopted in the spring of 1947 a program designed to cultivate aesthetic perception, creative control of materials, a love of fine workmanship, and other important areas of learning and of experience, such as community service, which have usually been omitted from the liberal arts program. The Faculty feels that, though courses in these areas cannot properly be included in the academic curriculum, they are of no less importance in the development of personality than strictly intellectual work.

Every student is required to take nine terms (a "term" in this sense being approximately nine weeks in either the autumn, winter, or spring) of work which is not academic in nature. It is mandatory that six of these terms be taken in Physical Education: three in the Freshman year, two in the Sophomore year, and one in the Junior year. The remaining three terms may be devoted either to courses of the Department of Physical Education or to those of the Arts and Service Program described here. The Arts and Service courses are offered in the fall and winter but not in the spring term; the first election of such courses may be made in the Sophomore year.

In its non-academic work, the College insists on the same high quality of teaching which it demands in its academic courses. A distinction in the two types of work is needed not because one is thought to be less important than the other, but because in the opinion of the Faculty the two kinds of work are different and should not be equated.

CABINETMAKING—*Three hours a week.* Mr. Holmes.

Instruction in woodworking with hand tools on selected tasks. Qualified students may work on projects of their own choice insofar as facilities permit. Cost of materials will be borne by the student. Limited to five students, with consent of the instructor. Offered in the winter term, but students wishing to enroll in this course should see Mr. Holmes at the time of registration for the fall term.

COMMUNITY SERVICE—*Three hours a week.* Mr. Hetzel.

This course provides an opportunity for students to render service to, and participate in, the affairs of the community. Arrangements are made on an individual basis for scheduled and supervised activities such as Boy Scout leadership, work at the Main Line YMCA and at community centers in Philadelphia, political party and election campaign activity, work for the Red Cross, the American Friends Service Committee, etc. Offered in the fall and winter terms.

MACHINE-TOOL WORK—*Three hours a week.* Mr. Wilson.

This course, designed for beginners, will include machine-tool work on the lathe, milling machine, shaper, and drill-press. Those who have sufficient skill will be permitted to use the scheduled period for approved projects of their own choice. Offered in the winter term. Limited to five students.

MODELING AND SCULPTURE—*Three hours a week.* Mr. J. Wallace Kelly.

A course open to beginners or advanced students. It includes composition, portrait, life, and some study of modern trends in sculpture. Students will use wet clay and plasteline, and will build directly in plaster. As artists have long been taught to read, so this course aims to teach academic students to see. Offered in the winter term.

MODERN IRON SCULPTURE—*Three hours a week.* Mr. J. Wallace Kelly.

A practical course using a spot welder to develop three dimensional free forms. Each student will make sketches and develop a composition, will use iron rods and thin-gauge sheet iron cut, shaped, and then welded together. Students will also

discuss modern sculpture with the instructor. Offered in the fall term. Limited to six students.

MUSIC APPRECIATION—(1)—*Three hours a week.* Mr. Reese.

An elementary course designed to develop a technique of listening to music. The basic aspects of music—melody, rhythm, harmony, texture, color, form—are studied. Emphasis is placed on the analysis of examples given and of music heard in available concerts. Students are required to keep a class notebook. Offered in the winter term.

MUSIC APPRECIATION—(2)—*Three hours a week.* Mr. Caselli.

Italian Comic Opera will be studied and analyzed with particular regard to the different schools. An answer to a simple questionnaire will be required at the end of the course as a final examination. Not offered in 1961-62.

PAINTING AND GRAPHIC ARTS—*Three hours a week.* Mr. Janschka.

The purpose of instruction in this course is to help the student in acquiring perception and skill in artistic creation and rendition through the media of drawing, printmaking, and painting. It will involve an investigation of the uses and potentialities of different techniques, employing still life, life models, and imagination. For the advanced student the stress is on picturemaking, but prior experience is not required. Offered in the fall and winter terms. Limited to twelve students each term.

PHOTOGRAPHY—*Three hours a week.* Mr. Wilson.

This is a course for beginners, and will include instruction in the use and characteristics of photographic equipment, the processing of films and papers, and the composition of subject material both indoors and outdoors. Offered in the fall term. Limited to four students.

RADIO COMMUNICATION—*Three hours a week.* Mr. Benham.

This course consists of projects in radio, such as instruction in the International Morse Code, a study of basic principles, or a construction project (the cost of materials to be borne by the student). It may serve as preparation for the amateur license examination given by the Federal Communications Commission. Offered in the winter term. Admission with the consent of the instructor.

READING AND RECORDING FOR THE BLIND—*Three hours a week.* Mr. Benham and Mr. Butman.

This course offers the opportunity of reading to students at the Overbrook School for the Blind, or making tape recordings of short stories, novels, and poetry. Admission with the consent of the instructors. Offered in the winter term, but students wishing to enroll in this course should see Mr. Benham at the time of registration for the fall term.

THEATER ARTS—MOVEMENT ON THE STAGE—*Three hours a week.* Mr. Butman.

In this course the student is taught how to move on the stage, both in mime and regular acting. The purpose is mainly to overcome self-consciousness and to help the student in self-expression. Offered in the fall term.

THEATER ARTS—SPEAKING ON THE STAGE—*Three hours a week.* Mr. Butman.

A course in which the student is taught how to use his voice on the stage, both as a formal speaker and as an actor. Training is given in dramatic speaking, verse reading, and public speaking. Offered in the winter term.

WEEKEND WORKCAMPS—Mr. Hetzel and Mr. Richie.

Students electing this course will spend two weekends participating in the work of renovating houses in certain areas in Philadelphia, or in the Weekend Institutional Service Units of the American Friends Service Committee as volunteer workers in a psychiatric hospital. Consultations with expert social workers and discussion within the group will promote an interest in and an understanding of social problems. Offered in the fall and winter terms.

Student Government

THE STUDENTS' ASSOCIATION is made up of all undergraduates at Haverford College. The College Administration has delegated to the Students' Association—and the Association has accepted—the responsibility for nearly all aspects of student conduct and of student organizations on the campus. The main instrument for exercising this unusual degree of self-government is the Students' Council, composed of elected representatives from each class.

The Students' Council is both an executive and a judicial body. It handles all phases of the administration of regulations of the Students' Association. On the campus the Council manages extracurricular activities, exclusive of athletics, and allocates to each organization a percentage of the Student Activities Fees.

The presidency of the Students' Council is the most important undergraduate office at Haverford. The President represents the student body before the Board of Managers, the College Administration, and the Faculty. He serves both as liaison officer and as executive. He conveys to the College Administration the recommendations of the Students' Council in disciplinary matters.

Honor System

THE HONOR SYSTEM at Haverford is based on the belief that students can successfully take the responsibility of establishing and maintaining standards in social and academic life. In the academic area the Honor System stipulates that one should distinguish clearly between one's own work and material from any other source. Since examinations are not proctored at Haverford, suitable conduct is required by accepted code. In the social area the guiding principle is respect for the reputation of women guests and of the College.

THE HONOR PLEDGE is called to the attention of each applicant for admission to Haverford College:

"I hereby accept the Haverford College Honor System, realizing that it is my responsibility to safeguard, uphold, and preserve each part of the Honor System and the attitude of personal and collective honor upon which it is based."

Specifically, each student who enters Haverford pledges himself to uphold three responsibilities under the Honor System: (1) to govern his own conduct according to the principles which have been adopted by the Students' Asso-

ciation; (2) in case of a breach of the Honor System to report himself to the Students' Council; (3) if he becomes aware of a violation by another student, to ask the offender to fulfill his pledge by reporting himself. If the offender refuses, the student is pledged to report the matter to the Students' Council. In this manner each individual becomes personally responsible for the successful operation of the entire Honor System.

There are several ways in which the Honor System contributes to the quality of student life at Haverford. There is educational value in considering carefully the factors which make standards necessary and in deciding as a group what standards and regulations are needed in a college. It follows that a large degree of self-government is made possible since students are willing to respect those standards which they themselves have set up. At the same time Haverford successfully meets its responsibility to the community by maintaining an acceptable level of conduct. With his privileges and responsibilities more clearly defined, a Haverford student enjoys a freedom which contributes to the atmosphere of integrity and mutual confidence that prevails at the College.

Each entering student must feel confident before selecting Haverford that he can give his active support to the Honor System. He should realize that its success, which is of great importance to him personally and to the whole student body, and indeed to the College itself, depends upon his willingness to give it his complete support.

Student Committees

The constitution of the Students' Association provides for the following committees to be appointed by the Students' Council:

THE HONOR SYSTEM COMMITTEE is responsible for introducing the Honor System to incoming students. It also makes periodic evaluations of how the System works.

THE STUDENT CURRICULUM COMMITTEE investigates and suggests possible changes in the program of study of the College.

THE CUSTOMS COMMITTEE is in charge of introducing the Freshmen to the College in September.

THE RULES COMMITTEE is an advisory committee on legal and procedural matters of Student Government and continually evaluates and suggests changes in the Constitution.

THE DORMITORY COMMITTEE works with the Comptroller in handling complaints and making recommendations for dormitory improvements.

Various other committees are appointed by the Students' Council according to existing needs.

Student Organizations

THE CAUCUS CLUB is an organization of men interested in political, economic and sociological affairs. It includes as subsidiary groups a chapter of the Intercollegiate Conference on Government and the Political Forum which is responsible for bringing speakers on current affairs in these fields to the campus.

THE INTERNATIONAL CLUB, founded in 1954 by an exchange student, offers opportunities for Haverford students to become acquainted with customs in foreign countries.

THE W. W. COMFORT DEBATING SOCIETY elects to membership men who have shown a consistent interest in debating, and who have represented the College on more than one occasion. Every year a series of intercollegiate debates is conducted.

THE DRAMA CLUB, in conjunction with the Bryn Mawr College Theatre, produces on the average three major plays a year, alternating between the Bryn Mawr and Haverford stages. The workshop of the Club, with lectures and discussions on all vital aspects of play production, is open to all regardless of previous experience.

THE HAVERFORD COLLEGE GLEE CLUB, the chief musical organization of the College, is open to all students who have a love of music and enjoy singing. A schedule of trips and joint concerts with choruses of the principal women's colleges is planned each year, often including a concert tour during Spring vacation. The Club presents major choral works as well as numbers for male voices. Rehearsals are held twice weekly.

THE ORCHESTRA is a combined enterprise with Bryn Mawr College. All students playing orchestral instruments are invited to get in touch with the Director, Dr. William Reese. Concerts of orchestral music are presented during the year and the Orchestra often participates with the Glee Club in the performance of major choral works.

Smaller ensemble groups for chamber music are fostered at both colleges. There is opportunity for instrumental study with noted teachers at nearby music institutions.

THE RADIO CLUB operates the College radio station, WHRC. Members of the club arrange programs, operate the station, and build or buy necessary equipment. The studios are located in the third floor of the Union Building.

THE VARSITY CLUB of Haverford College, organized in 1936, is composed of undergraduates who have won varsity letters. Its purpose is to advance the interests and ideals of the College through athletics.

THE ARTS COUNCIL is an organization whose purpose is to encourage interest and participation in the arts. To carry out this aim the Council sponsors recitals, readings, lectures on the arts, and other events of this nature on the campus. Membership is open to anyone who is interested in this area of activity.

DEPARTMENTAL CLUBS. There are at Haverford various departmental groups which arrange for outside speakers, hold discussion sessions, sponsor demonstrations, plays, and social gatherings. Among these are the French Club, German Club, Spanish Club, Philosophy Club, Psychology Club, the Mathematics Club, Biology Club, and Chemistry Club.

Joint Faculty and Student Groups

THE COMMITTEE ON STUDENT AFFAIRS is a joint committee made up of members of the administration and undergraduates. It is responsible for setting policy and for arranging the calendar for social events, athletics, and extra-curricular activities. The budgets of all recognized student organizations must be submitted to it for approval.

THE CAMPUS CLUB is an association of graduates, faculty members, undergraduates, and friends of the College who are interested in maintaining and increasing the beauty of the College campus.

Student Publications

THE HAVERFORD NEWS is a weekly newspaper, distributed to all undergraduates and faculty members and sent to all members of the alumni body. It is published on Fridays, during the college year, by undergraduates. There are opportunities for all interested men on both editorial and business staffs.

THE HAVERFORD COLLEGE HANDBOOK is published each fall under the auspices of the Students' Council. It contains information particularly valuable to new students.

THE RECORD is published annually by the Senior class, with the financial support of the Students' Association. It includes a record of the year, with particular emphasis upon the activities of the graduating class.

THE HAVERFORD REVUE is a magazine devoted to student literary efforts. It is published approximately twice a year.

Health Program

THE HAVERFORD COLLEGE HEALTH PROGRAM is under the direction of the College Physician, who holds office hours at the Infirmary at stated hours

and is available in any emergency. Also available to all College students by appointment at the College Infirmary, is a qualified Psychiatrist. The advice and help of expert medical consultants may be obtained readily at the Bryn Mawr Hospital. When necessary, additional consultants are obtained from one of the University Hospitals in Philadelphia. The College Nurse is on duty at the Infirmary at all times.

Each student is required to have a complete physical examination by his own physician before entering the College and each year before returning to campus. Follow-up examinations are given when indicated by the College physician. Influenza Vaccine is recommended and given to the entire student body each year, at no additional cost to the student. Immunization against smallpox, tetanus, poliomyelitis, and typhoid fever is required before entering the College. Pre-entrance chest x-ray examination is strongly recommended.

Each student is entitled to unlimited dispensary service, at stated hours, and first-aid service at any time.

In case of illness, each student is entitled to two weeks of residence in the Morris Infirmary each semester, ordinary medicine, diagnostic laboratory work, and x-rays needed for diagnosis, and the services of the College physician and resident nurse.

Students will be charged \$5.00 a day for residence in the Infirmary after their first two weeks. Day students will be charged for board in addition, while in the Infirmary.

Each student is also covered by a blanket accident policy which pays actual expenses resulting from any accident up to a limit of \$500.00 for each accident. The expenses covered include x-rays, medicine, surgical appliances, hospital bills, nursing care, physician's fee, surgeon's fee, and also dentist bills for repair or replacement of natural teeth as a result of an accident, subject to the approval of the College physician. The coverage is in force from 12:01 A.M. Standard Time three days before the date when registration of entering students begins until midnight three days after Commencement Day.

All of these services are covered by the Unit Fee which is paid by all students (see page 27).

The Infirmary, presented by John T. Morris, '67, contains ten beds, a surgical room, an isolation ward for contagious diseases, its own kitchen, and accommodations for a resident nurse. Every provision has been made for medical and surgical treatment of all cases among students during the college year. The danger of infection through illness in the college dormitories is thus minimized.

Library, Laboratories, and Other Academic Facilities

The Library

THE HAVERFORD COLLEGE LIBRARY is planned and developed with the primary purpose of providing the intellectual resources of books, periodicals, and pamphlets needed to sustain the work of the academic curriculum. Most of the volumes have been selected by the teaching faculty, and, with the exception of some special collections described below, the books and periodicals are all on open shelves and readily accessible for over ninety hours a week during the college year. In the administration of the Library, the aim is to bring the resources of the book collection as effectively as possible into the academic life of the College.

Beyond this primary purpose, the Library seeks through several collections to provide opportunities for independent research in certain fields. Most notable of such collections is the Quaker Collection, which attracts many visiting scholars each year. The Government Depository and International Documents Collections provide extensive resources for independent study in the social sciences, and there are further collections of autograph material, orientalia, and particularly of Renaissance literature offering similar research opportunities in other fields.

The Haverford Library contains about 217,000 volumes, and holds subscriptions to about 800 serials. Though designed especially for the use of students and faculty of the College, the Library welcomes outside readers who wish to consult the books, and, under certain restrictions, may grant them special borrowing privileges. The Library is open on weekdays from 8:00 A.M. to 11:00 P.M., and on Sundays from 2:00 to 11:00 P.M. (Treasure Room: Weekdays—9:00 - 5:00; Saturdays—9:00 - 12:00). Special hours are arranged for vacation periods.

The Library building, the first portion of which (the present north wing) was built in 1863, has grown by five successive additions. In December 1952 the original north wing was renovated in memory of William Pyle Philips, and now forms a bright and comfortable room for quiet study. There are also four special reading rooms in the building:

THE GUMMERE-MORLEY MEMORIAL READING ROOM, decorated and

equipped by the Class of 1892, provides a reading and browsing room for Haverford students.

THE MICROMATERIALS READING ROOM, equipped with microfilm and microprint readers and a microfilm file of *The New York Times* from 1930 to the present.

THE RUFUS M. JONES STUDY, a replica of Rufus Jones' own study, with his own books and furniture, is used for seminar classes in philosophy as well as for quiet reading.

THE TREASURE ROOM, provided through the generosity of Morris E. Leeds of the Class of 1888, contains the Quaker Collection as well as other rare books and special collections.

Special Collections

THE QUAKER COLLECTION, containing approximately 20,000 books and 40,000 manuscripts, maps and pictures of interest to the Society of Friends, provides a repository for Quaker literature in the United States, and makes Haverford a vital center for the study of the history and philosophy of Quakerism. The unique nucleus of the library is *The William H. Jenks Collection of Friends' Tracts*, mostly of the seventeenth century, which numbers about 1500 separately bound titles.

THE RUFUS M. JONES COLLECTION ON MYSTICISM contains almost a thousand books and pamphlets from the fifteenth century to the present day.

THE TOBIAS COLLECTION OF THE WRITINGS OF RUFUS M. JONES is practically complete. It consists of 168 separate volumes and 16 boxes of pamphlets and extracts.

THE CHARLES ROBERTS AUTOGRAPH COLLECTION contains more than 20,000 items, embracing autographs of the signers of the Declaration of Independence, authors, statesmen, scientists, ecclesiastics, and monarchs, and also several series of valuable papers on religious and political history.

FRENCH DRAMA OF THE ROMANTIC PERIOD, a collection of several hundred popular plays produced in Paris between 1790 and 1850. The collection was presented to the College by William Maul Measey.

THE CHRISTOPHER MORLEY COLLECTION OF AUTOGRAPH LETTERS comprises about 200 letters and memoranda selected by Mr. Morley from his correspondence files. Over one hundred contemporary authors are represented.

THE WILLIAM PYLE PHILIPS COLLECTION contains rare books and manuscripts, mostly of the Renaissance period. Among the treasures of this collection are first editions of Dante, Copernicus, Spenser, the King James Bible, Milton, Newton, and the four folios of Shakespeare.

THE HARRIS COLLECTION OF ANCIENT AND ORIENTAL MANUSCRIPTS contains over sixty Hebrew, Greek, Latin, Arabic, Syriac, and Ethiopian rolls and codices collected by J. Rendel Harris.

Affiliations

Haverford maintains a cooperative arrangement with Bryn Mawr and Swarthmore whereby the facilities of the libraries of all three colleges are open to the faculty and students of each of the colleges.

THE PHILADELPHIA BIBLIOGRAPHICAL CENTER AND UNION LIBRARY CATALOGUE, the largest regional cooperative catalogue in America, enables users of the Haverford Library to locate books in over one hundred and seventy libraries of the Philadelphia area.

THE LIBRARY ASSOCIATES is an organization of graduates and friends of the College, devoted to increasing the usefulness of the Library. It serves to bring the facilities of the Library to wider notice and to make them available to the whole Haverford community; to encourage the making of gifts to the Library; and to aid in the use of the Library for exhibition purposes. Inquiries should be addressed to The Library, Haverford College.

Scientific Laboratories

THE WILLIAM J. STRAWBRIDGE MEMORIAL OBSERVATORY is equipped with three equatorially mounted telescopes, a 10-inch and a 4 $\frac{1}{2}$ -inch refractor, and a 6-inch reflector; a reflecting telescope with 8-inch mirror and altazimuth mounting; a meridian circle telescope of 3 $\frac{3}{4}$ -inch aperture; a zenith telescope of 2 $\frac{1}{4}$ -inch aperture; a spectroheliograph; an astrographic mounting provided with two 4-inch Ross lenses and a 4-inch guiding telescope; sidereal clocks, a chronograph, and other instruments. The astronomical library is housed in the Observatory.

THE LYMAN BEECHER HALL CHEMISTRY LABORATORY is a three-story structure with working space in the various laboratories for about two hundred and fifty students. Separate laboratories are available for general chemistry and qualitative analysis, quantitative analysis, organic chemistry, qualitative organic analysis and organic synthesis, semimicro quantitative analysis, and physical chemistry respectively. In addition two rooms are

devoted to the needs of research students. Books and periodicals dealing with chemical subjects are housed in a comfortably furnished library on the first floor which is open to the students.

THE HILLES LABORATORY OF APPLIED SCIENCE houses the Engineering Department. This modern building contains classrooms, drawing rooms, a departmental library, shops, and mechanical and electrical laboratories.

Exceptional facilities for observing the practical side of the work are offered by the many manufacturing companies in and near Philadelphia and frequent inspection trips are made.

SHARPLESS HALL is occupied on the two lower floors by the Department of Physics. Here are situated the departmental library, laboratories, darkrooms, shops, and rooms for individual work. The Department has well equipped laboratories for advanced work in electronics, X-rays, atomic, nuclear and high energy Physics. Recent grants have greatly expanded the precision electronics laboratory, and a loan of a sizeable quantity of uranium from the United States Atomic Energy Commission has made possible the construction of a sub-critical water-moderated nuclear reactor.

The upper floors house the Biology and Psychology laboratories, and the Biology library.

The Biology facilities include a new laboratory (the construction of which was subsidized by the Carnegie Corporation) for introductory cellular Biology, a general laboratory for microbiology and biochemistry and three well equipped, modern laboratories for senior research in cellular physiology, comparative biochemistry, and physiological genetics.

The Psychology Department has a number of individual rooms for student experimental research projects and facilities for housing animals for laboratory work.

Natural History Collections

THE NATURAL HISTORY COLLECTIONS, presented to the College by a considerable number of interested friends, are displayed in Sharpless Hall through a gift of the Class of 1915.

Art Collection

A permanent art collection, including paintings and drawings by Homer, Inness, Pintorricchio, Sargent, and Whistler, is displayed in the Library.

Temporary exhibitions of paintings, drawings, and photographs are held from time to time at the College.

Framed reproductions of outstanding paintings and a few originals are available for loan to students at the beginning of each semester.

Music

In addition to a considerable collection of music scores, including the complete works of several composers, and books in the general Library, the special equipment of the Music Department consists of several pianos and a collection of scores, books, and phonograph records presented in 1933 by the Carnegie Corporation. This record collection has served as the basis for further acquisitions which are used for teaching and study purposes.

New facilities for music will be available in the Fall of 1961 in the former home of William Wistar Comfort. These facilities will house the record collection, and will include three classrooms, offices for members of the Music Department, a Music Library, and four practice rooms.

The larger concerts are held in Roberts Hall where a Steinway Grand and a Schlicker portable pipe organ are at the disposal of artists.

THE HAVERFORD COLLEGE FRIENDS OF MUSIC is an association of friends and neighbors of the College and faculty members, who, in cooperation with the Music Department, arrange a series of chamber music concerts which are held at various times during the year in the Common Room.

Campus

THE ARBORETUM AND THE WOOLMAN WALK, the latter the gift of the late Edward Woolman, '93, contain a wide variety of woody plants, both indigenous and exotic, thus permitting direct observation and study by students of the natural sciences.

THE MARY NEWLIN SMITH MEMORIAL GARDEN, which adjoins the south side of the Library, while primarily developed as a decorative feature, contains a wealth of flowering shrubs of interest to the botanist.

Fellowships, Prizes and Honors

Fellowships

THE CLEMENTINE COPE FELLOWSHIP was established in 1899. The income is applied to "assisting worthy and promising graduates of Haverford College in continuing their studies at Haverford or at some other institute, in this country or abroad, approved by the Board of Managers. Candidates shall be nominated by the College Faculty to the Board of Managers."

The Faculty will nominate a First Cope Fellow and a Second Cope Fellow whose individual stipends, not to exceed \$1,000, will be determined by the Board.

Applications for the Clementine Cope Fellowship must be in the hands of the President not later than March 1, accompanied by whatever statement of extracurricular activities the candidate considers relevant.

Prizes

(All prizes awarded in books are marked with appropriate bookplates. As soon as possible after the award a list of standard books from which selection is to be made should be submitted for approval to the head of the department awarding the prize.)

ALUMNI PRIZE FOR COMPOSITION AND ORATORY.—A prize of \$50.00 was established by the Alumni Association in 1875 to be awarded annually for excellence in composition and oratory. Competition is open to Freshmen and Sophomores, but the same man may not receive the prize twice. The competition for this prize is administered by the Department of English.

JOHN B. GARRETT PRIZES FOR SYSTEMATIC READING.—A first prize of \$150.00 and a second prize of \$75.00 will be given at the end of the Sophomore, Junior or Senior year to the two students who, besides creditably pursuing their regular course of study, shall have carried on the most profitable program of reading in a comprehensive topic during a full college year.

Candidates for these prizes must register with the chairman of the department under whose supervision the work will be performed. The department is responsible for guiding the work and reporting the achievement to the Committee on Honors, Fellowships and Prizes for final judgment. Either or both of these prizes may be omitted if, in the judgment of the Committee, the work does not justify an award.

Interested students should apply directly to a relevant department for information.

THE CLASS OF 1896 PRIZES IN LATIN AND MATHEMATICS.—Two prizes of \$10.00 each, in books, to be known as "The Class of 1896 Prizes in Latin and Mathematics," were established by the bequest of Paul D. I. Maier of the Class of 1896. They are awarded at the end of the Sophomore year to the students who have done the best work in the departments concerned.

THE LYMAN BEECHER HALL PRIZE IN CHEMISTRY.—A prize of \$100.00 was established by the Class of 1898 on the twenty-fifth anniversary of its graduation, in honor of Lyman Beecher Hall, Professor of Chemistry at Haverford College from 1880 to 1917.

This prize may be awarded to a student who has attained a high degree of proficiency in Chemistry and who shows promise of contributing substantially to the advancement of that science. It may be awarded to a Junior, to a Senior, or to a graduate of Haverford College within three years after graduation. It may be awarded more than once to the same student, or it may be withheld.

THE CLASS OF 1902 PRIZE IN LATIN.—A prize of \$10.00 in books, is offered annually by the Class of 1902 to the Freshman whose work in Latin, in recitation and examinations combined, shall be the most satisfactory. At the discretion of the professor in charge of the Department, this prize may be omitted in any year.

THE DEPARTMENT PRIZES IN MATHEMATICS.—A first prize of \$30.00 and a second prize of \$20.00 are awarded on the basis of a three hour examination on selected topics in Freshman Mathematics. The examination is held annually on the first Monday after the Spring Recess, and is open to Freshmen only.

ELLISTON P. MORRIS AND ELIZABETH P. SMITH PEACE PRIZES.—These have been combined into a single competition offering three awards of \$200.00, \$100.00 and \$50.00 respectively. It is open to all undergraduates and to graduate students.

The prizes are awarded for the best essays bearing on the general topic of "Means of Achieving International Peace." Essays should be deposited with the Registrar before May 1. The judges shall be appointed by the President of the College.

Prizes will not be awarded if, in the opinion of the judges, a sufficiently high standard of merit has not been attained.

PRIZES IN PHILOSOPHY AND BIBLICAL LITERATURE.—A prize of \$40.00 and a second prize of \$25.00, in books, are offered annually to the students who, in the judgment of the professor in charge, do the most satisfactory outside reading in Philosophy in connection with the courses in that Department.

A prize of \$40.00 and a second prize of \$25.00, in books, are offered annually to the students who, in the judgment of the professor in charge, do the most satisfactory reading on the Bible and related subjects.

THE SCHOLARSHIP IMPROVEMENT PRIZES.—A first prize of \$50.00 and a second prize of \$45.00 are awarded at the end of the Senior year to the two students who, in the opinion of the judges appointed by the President of the College, show the most steady and marked improvement in scholarship during their college course.

THE FOUNDERS CLUB PRIZE.—A prize of \$25.00 is offered and awarded annually by the Founders Club to the Freshman who is judged to have shown the best attitude toward college activities and scholastic work.

THE S. P. LIPPINCOTT PRIZE IN HISTORY.—A prize of \$100.00 is offered annually for competition in the Department of History under the following general provisions:

First—Competition is open to Sophomores, Juniors, and Seniors who have taken or are taking work in the Department of History.

Second—The prize shall not be awarded twice to the same student.

Third—The prize may be withheld in any year if, in the opinion of the judges, a sufficiently high standard of merit has not been attained.

Fourth—An essay of not less than 5,000 words, written in connection with course or Honors work in History, or independently of course work, treating a subject selected with the approval of a member of the History Department, shall be submitted as evidence of scholarly ability in the collection and presentation of historical material. It shall be typewritten and deposited with the Registrar before May 1.

THE NEWTON PRIZE IN ENGLISH LITERATURE.—A prize of \$50.00 established by A. Edward Newton may be awarded annually on the basis of Final Honors in English, provided that the work of the leading candidate, in the judgment of the English Department, merits this award.

THE WILLIAM ELLIS SCULL PRIZE.—A prize of \$50.00, established in 1929 by William Ellis Scull, '83, is awarded annually to the upperclassman who shall have shown "the greatest achievement in voice and in the articulation of the English language." This prize is administered by the Department of English.

THE GEORGE PEIRCE PRIZE IN CHEMISTRY OR MATHEMATICS.—A prize of \$50.00 in memory of Dr. George Peirce, '03, is offered annually to a student of Chemistry or Mathematics "who has shown marked proficiency in either or both of these studies and who intends to follow a profession which calls for such preparation. Preference is to be given to a student who has elected organic chemistry, and failing such a student, to one who has elected Mathematics or some branch of Chemistry other than organic. Should there be two students of equal promise, the one who is proficient in Greek shall be given preference." The prize is offered, however, exclusively for students who have expressed the intention of engaging in research.

EDMUND J. LEE MEMORIAL AWARD.—Classmates of Edmund Jennings Lee, '42, who lost his life in the service of his country, have established in his memory a fund, the income from which is to be given annually to that "recognized undergraduate organization which has contributed most toward the furtherance of academic pursuits, extracurricular activities, spiritual growth, or college spirit in individuals or in the College as a whole during the year. The Award is to be used in continuing to render such service."

THE WILLIAM W. BAKER PRIZE IN GREEK.—A prize of \$25.00 in books, established in 1954 in memory of William W. Baker, Professor of Greek at Haverford College from 1904 to 1917, is given "in the study of Greek," and is administered by the Classics Department.

THE KURZMAN PRIZE IN POLITICAL SCIENCE.—A prize of \$125, established in 1958 by Harold P. Kurzman, is awarded annually for the senior who has performed best and most creatively in political science, except when in the judgment of the department no student has done work of sufficient merit to warrant such award.

THE THERESA HELBURN PLAYWRITING AWARD.—These awards, open to all students of Bryn Mawr College, are given by Theresa Helburn to encourage playwriting. The prize consists of \$100.00 for the best full-length play and \$50.00 for the best one-act play submitted each year and considered worthy. Original work is required; adaptations, translations and collaborations are not eligible. Haverford students in playwriting may submit manuscripts for these awards.

THE HAMILTON WATCH AWARD.—A fine Hamilton watch is awarded to that Senior, majoring in one of the Natural Sciences, Mathematics, or Engineering who has most successfully combined proficiency in his major field of study with achievements, either academic or extracurricular or both, in the Social Sciences or Humanities.

THE JOHN G. WALLACE CLASS NIGHT AWARD.—A silver cup to be awarded annually to the Best Actor in the Class Night performances.

HAVERFORD NEWS 50TH ANNIVERSARY AWARDS.—Four prizes established by a former editor of the HAVERFORD NEWS to be awarded annually at Commencement for a period of five years (1959-1963); 1) To the NEWS staff member writing the best editorial during the year, \$25; 2) To the staff member writing the best feature story, \$25; 3) To the staff member writing the best report on a public address given on the campus, \$25; 4) To the staff member writing the best account of a sports event, \$25.

Honor Societies

PHI BETA KAPPA.—The Haverford College Chapter of the Phi Beta Kappa Society of America was chartered in 1898 as Zeta of Pennsylvania. Election of members-in-course, Alumni members, and Honorary members, based upon scholarly attainment and distinction, takes place at the end of the academic year. *President:* Archibald MacIntosh, '21; *Vice-President,* Raymond T. Ohl, '21; *Secretary,* Harry W. Pfund, '22; *Treasurer,* Holland Hunter, '43.

FOUNDERS CLUB.—The Founders Club was established in 1914 as a Haverford organization of students, alumni, and Faculty. Election to its membership is recognition of a sound academic record combined with noteworthy participation in extra-curricular activities. Undergraduate elections are usually limited to the Junior and Senior classes. *President:* F. Thomas Hopkins, '49; *Vice-President,* George E. Ruff, '49; *Treasurer,* Arthur W. Leibold, '53; *Secretary,* Donald L. Snider, '62.

Honorable Mention

Honorable Mention in a single year course will be awarded at the end of the Freshman or Sophomore year, or at the end of the Junior or Senior year in any course outside a student's major field, for acceptable work in that course and additional work in the total amount of not less than seventy-five hours. Candidates for Honorable Mention must obtain a minimum average of 85 in the regular work of the year course and may be required to pass an examination on the additional work. Two courses of one semester each in the same department may be construed as a single course.

A student who has received the prescribed grade in the regular work of a course required for Honorable Mention, but who has not done the additional work required in connection with that course, may do so with the consent of the professor in charge during the succeeding year.

Final Honors

Final Honors are awarded to students who have undertaken and carried through academic work of high quality. Final honors are of two kinds, those awarded by departments and those awarded by the College.

A student who is considered to have the requisite ability is invited by his department to become an honors candidate as early as possible in the course of his major work. The exact nature of departmental honors work and the criteria used in judging it are listed in the departmental statements in this Catalog. For honors the work in the department must be considerably superior to that required for graduation. The student must demonstrate his competence, insight and commitment to his field of interest.

Individual departments may award *honors* to students whose departmental work has been of high quality and *high honors* to those who have demonstrated both high quality and originality, indicating an unusual degree of competence.

Students who have been awarded departmental honors may be invited by the Committee on Honors, Fellowships and Prizes to stand for College honors: *magna cum laude* or *summa cum laude*. *Magna cum laude* indicates that a student has understood to a superior degree the significant relations between the area of his own specialized competence and his College work as a whole. *Summa cum laude* indicates an even more outstanding achievement. *Magna cum laude* and *summa cum laude* are awarded by the faculty on recommendation of the committee.

The Committee on Honors, Fellowships and Prizes will fix the minimum academic standards and procedures acceptable in any year for *magna cum laude* and *summa cum laude* and may require oral and/or written examinations or essays.

HAVERFORD SOCIETY OF NEW ENGLAND

President.....ALBERT D. BRANSON, '41
Rath & Strong, 140 Federal St., Boston, Mass.

Secretary.....PHILIP F. McLELLAN, '42
Fifty State Street Co., 50 State St., Boston, Mass.

Treasurer.....WILLIAM G. KAYE, '54
118 Riverway, Apt. 26, Boston 15, Mass.

HAVERFORD SOCIETY OF WILMINGTON

President.....HOWARD W. STARKWEATHER, JR., '47
614 Foulkstone Road, Sharpley, Wilmington 3, Del.

Vice-President.....MARSHALL C. GUTHRIE, JR., '37
708 Princeton Road, Wilmington 6, Del.

Secretary-Treasurer.....JOHN E. LEWIS, '39
14 Briar Road, Wilmington, Del.

HAVERFORD SOCIETY OF LOS ANGELES

President.....GEORGE B. STURR, '47
1343 Sinaloa Drive, Glendale 7, Calif.

Secretary-Treasurer.....HAROLD J. BROWNLEE, JR., '49
9200 Ingleport Avenue, Los Angeles 45, Calif.

HAVERFORD SOCIETY OF NORTHERN CALIFORNIA

President.....RICHARD WISTAR, '28
Mills College, Oakland 13, Calif.

HAVERFORD SOCIETY OF SEATTLE

President.....JAMES F. GARY, '42
4533 East Laurel Drive, Seattle 5, Wash.

Secretary.....ERNEST M. EVANS, M.D., '35
4404—52nd St., N.E. Seattle 5, Wash.

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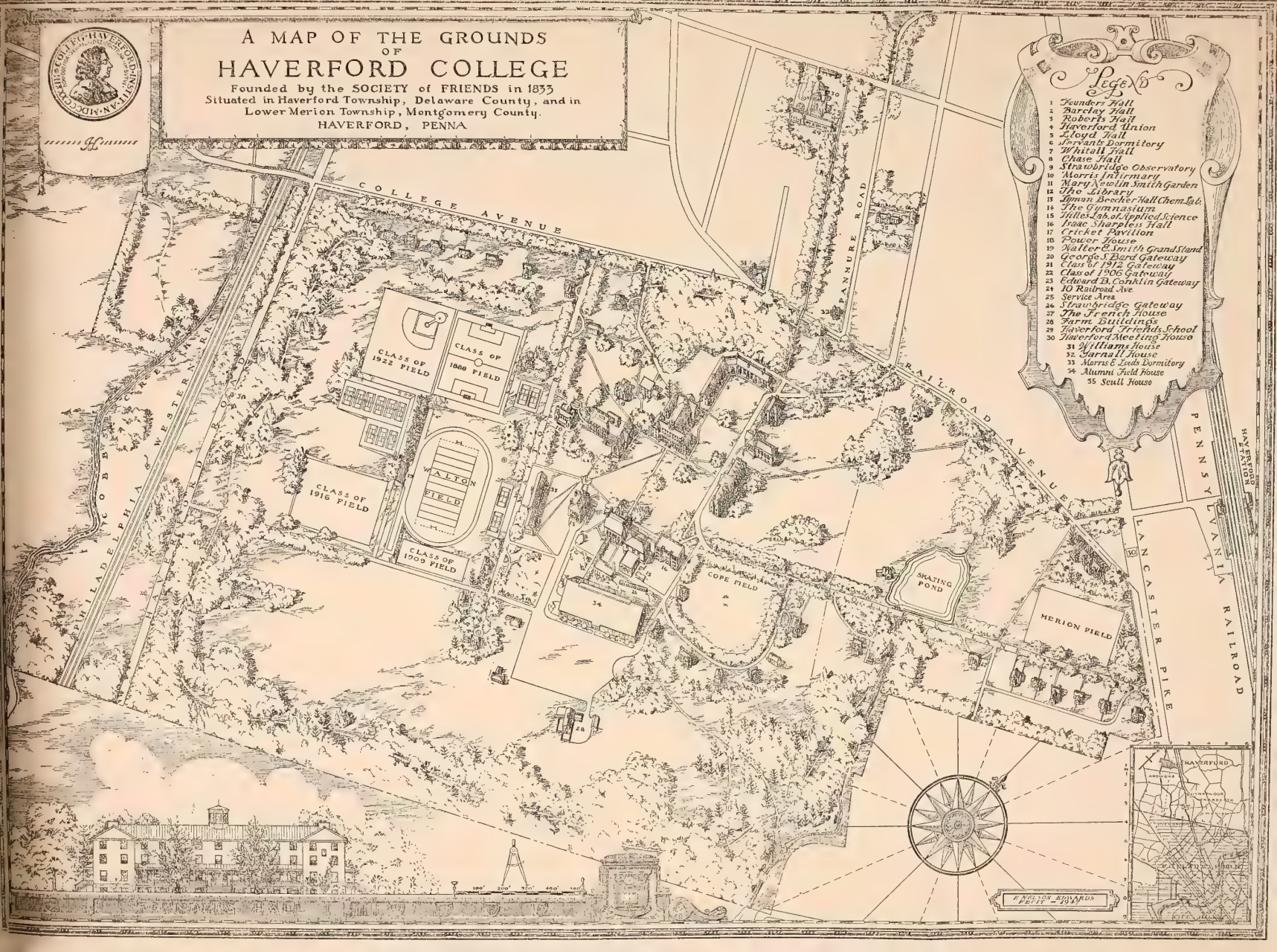


A MAP OF THE GROUNDS OF HAVERFORD COLLEGE

Founded by the SOCIETY of FRIENDS in 1833
Situated in Haverford Township, Delaware County, and in
Lower Merion Township, Montgomery County.
HAVERFORD, PENNA.

Legend

- 1 Founders' Hall
- 2 Barclay Hall
- 3 Roberts Hall
- 4 Haverford Union
- 5 Lloyd Hall
- 6 Cranberry Dormitory
- 7 Whitall Hall
- 8 Chase Hall
- 9 Strausbridge Observatory
- 10 Morris Infirmary
- 11 Mary Nowlin Smith Garden
- 12 Ohio Library
- 13 Simon Drexler Hall Chem. Lab.
- 14 The Gymnasium
- 15 Hiles Lab. of Applied Science
- 16 Isaac Sharpless Hall
- 17 Cricket Pavilion
- 18 Power House
- 19 Walter E. Smith Grandstand
- 20 George S. Bard Gateway
- 21 Class of 1912 Gateway
- 22 Class of 1906 Gateway
- 23 Edward B. Conklin Gateway
- 24 10 Railroad Ave
- 25 Service Area
- 26 Strausbridge Gateway
- 27 The French House
- 28 Farm Buildings
- 29 Haverford Friends School
- 30 Haverford Meeting House
- 31 Williams House
- 32 Cornell House
- 33 Morris E. Leeds Dormitory
- 34 Alumni Field House
- 35 Scull House



Faculty

- MANUEL JOSE ASENSIO *Associate Professor of Romance Languages*
B.A., University of Granada; M.A. and Ph.D., University of Pennsylvania.
- *JOHN ASHMEAD, JR. *Associate Professor of English*
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- BRADFORD COOK *Associate Professor of French*
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† Absent on leave second semester.

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* Absent on leave, 1960-61.

† Absent on leave second semester.

HAVERFORD COLLEGE

BULLETIN



1961—1962

HAVERFORD, PENNSYLVANIA

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Haverford College, Haverford, Pennsylvania. Entered as second-
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under the Act of August 24, 1912.

1961-1962

- * If a paper is assigned in place of the final examination in a course, the date by which it is due may be set by the instructor not later than 4 P.M. on Tuesday of the final week of the examination period, or for seniors in their final semester, noon on Monday of that week. Late papers will receive no credit unless arrangements have been made *in advance* with the instructor in the course and the Dean.
- ** Laboratory notebooks must be turned in not later than the scheduled time of the examination in the course. Late notebooks will receive no credit unless arrangements have been made *in advance* with the instructor in the course and the Dean. In courses which have no scheduled examination, notebooks must be turned in by 4 P.M. on Tuesday of the final week of the examination period.

1961																
Sept.	S	M	T	W	T	F	S	Nov.	S	M	T	W	T	F	S	
						1	2						1	2	3	4
	3	4	5	6	7	8	9		5	6	7	8	9	10	11	
	10	11	12	13	14	15	16		12	13	14	15	16	17	18	
	17	18	19	20	21	22	23		19	20	21	22	23	24	25	
	24	25	26	27	28	29	30		26	27	28	29	30			
Oct.	1	2	3	4	5	6	7	Dec.								
	8	9	10	11	12	13	14		3	4	5	6	7	8	9	
	15	16	17	18	19	20	21		10	11	12	13	14	15	16	
	22	23	24	25	26	27	28		17	18	19	20	21	22	23	
	29	30	31						24	25	26	27	28	29	30	
									31							

1962															
Jan.	S	M	T	W	T	F	S	Apr.	S	M	T	W	T	F	S
		1	2	3	4	5	6		1	2	3	4	5	6	7
	7	8	9	10	11	12	13		8	9	10	11	12	13	14
	14	15	16	17	18	19	20		15	16	17	18	19	20	21
	21	22	23	24	25	26	27		22	23	24	25	26	27	28
	28	29	30	31					29	30					
Feb.					1	2	3	May			1	2	3	4	5
	4	5	6	7	8	9	10		6	7	8	9	10	11	12
	11	12	13	14	15	16	17		13	14	15	16	17	18	19
	18	19	20	21	22	23	24		20	21	22	23	24	25	26
	25	26	27	28					27	28	29	30	31		
Mar.					1	2	3	June						1	2
	4	5	6	7	8	9	10		3	4	5	6	7	8	9
	11	12	13	14	15	16	17		10	11	12	13	14	15	16
	18	19	20	21	22	23	24		17	18	19	20	21	22	23
	25	26	27	28	29	30	31		24	25	26	27	28	29	30

College days in heavy-face type.

CALENDER OF EVENTS

1961-62

September

- 19 New Students Arrive
- 23 Freshman Mixer at Bryn Mawr
- 30 Return Mixer at Haverford
- Football at Wagner
- Soccer at Navy
- Cross Country — Albright (home)

October

- 4 Soccer — Princeton (home)
- 6 & 7 (Freshman Hall Plays at Bryn Mawr)
- 7 Football — Dickinson (home)
- Soccer at Franklin and Marshall
- Cross-Country at Pennsylvania Military College
- 13 & 14 Sophomore Weekend
- 13 Cross-Country — Lafayette (home)
- 14 Homecoming Day
- Football — Johns Hopkins (home)
- Soccer — Stevens (home) (11:00 A.M.)
- Homecoming Tea in Gymnasium or Field House
- Homecoming Dance — Gymnasium
- 20 Folk-Sing (Council)
- 21 Football — Open Date
- Soccer at Lehigh
- Cross-Country — Johns Hopkins (home)
- Movie (Social Committee)
- 27 Recital — Robert Martin & David Hemmingway (Arts Council) Common Room
- 28 Football at Pennsylvania Military College
- Soccer at University of Pennsylvania
- Cross-Country — Lehigh (home)
- Evening — Halloween Party (Social Committee)

November

- 1 Soccer — Ursinus (home)
- 4 Football at Ursinus
- Soccer at LaSalle
- Cross-Country at Temple
- Evening — Movie (Social Committee)
- 5 Glee Club Concert (home)
- 10 Orchestra Concert at Bryn Mawr
- 11 Parents Day
- Football — Wilkes (home)

November

- 11 Soccer — Rutgers (home)
Cross-Country at Swarthmore
- 14 Glee Club Concert in Collection
- 17 Cross-Country — MACC at Muhlenberg
Drama Club Production
- 18 Swarthmore Day — No Classes
Soccer at Swarthmore, 10:30 A. M.
Football at Swarthmore
Drama Club Production, 7:30 P. M.
Varsity Club Dance, 9:00 P. M.
- 22 to 27 Thanksgiving Vacation

December

- 2 Movie (Social Committee)
Basketball at Drew
- 6 Basketball — Pharmacy (home)
- 9 Arts Night — "Paradise Lost" (Arts Council)
Freshman Glee Club (away)
Basketball at Johns Hopkins
Wrestling at Delaware
- 10 Interfaith Concert — Glee Club at Bryn Mawr
- 11 Glee Club Christmas Concert and Party
- 13 Basketball — Pennsylvania Military College (home)
Wrestling at Albright
- 15 Fencing at Princeton
- 16 noon to }
January 3 } Christmas Vacation
8:00 A. M. }

January

- 3 Basketball — Moravian (home)
- 6 Basketball — Ursinus (home)
Wrestling — Ursinus (home)
Fencing — Rutgers (home)
- 10 Basketball at Drexel
Fencing — Muhlenberg (home)
- 13 Basketball at Stevens
Wrestling — Johns Hopkins (home)
Fencing — Drew (home)
Square Dance at Bryn Mawr
- 17 Basketball — Delaware Valley (home)
- 18 Last Day of Classes

February

- 5 Second Semester Classes Begin.

February

- 7 Basketball at Ursinus
Fencing at Lehigh
- 10 Glee Club Concert at Goucher
Basketball at Swarthmore
Wrestling at Drexel
Fencing at Temple
- 14 Basketball — Drexel (home)
- 17 Basketball at Pennsylvania Military College
Wrestling — Pennsylvania Military College (home)
Fencing — Stevens (home)
- 21 Basketball at Franklin and Marshall
Fencing — Rutgers Newark Branch (home)
- 22 & 23 Class Night Shows
- 23 & 24 Junior Weekend
- 24 Basketball — Swarthmore (home). (Hood Trophy Game)
Junior Dance
Fencing at Johns Hopkins
Wrestling — Swarthmore (home)

March

- 2 & 3 Glee Club Concert with Philadelphia Orchestra in
Philadelphia
Wrestling — Middle Atlantic Championships (away)
- 3 Fencing — Middle Atlantic Championships (away)
- 9 Orchestra Concert (home)
- 10 Rock 'n Roll Party — Gymnasium (Social Committee)
- 16 & 17 Drama Club at Bryn Mawr
- 16 or 17 Freshman Glee Club
- 24 Spring Vacation Begins, 12 Noon
Glee Club Trip

April

- 2 Spring Vacation Ends, 8:00 A. M.
- 4 Baseball at Pennsylvania Military College
Track at Franklin and Marshall
Tennis at Navy
Golf — Franklin and Marshall and Lehigh (home)
- 7 Freshman Weekend
Dinner-Dance in Gymnasium
Baseball at St. Joseph's
Track at Lycoming — also with Albright
Tennis at Rutgers
- 11 Baseball — Eastern Baptist (home)
Track — Ursinus (home)
Tennis — Moravian (home)

April

- 11 Golf at Moravian
- 13 Golf — West Chester (home)
Orchestra Concert (home)
- 14 Baseball at Drexel
Track at Lehigh
Tennis — Johns Hopkins (home)
Freshman Glee Club (away)
Arts Night
- 18 Baseball — Ursinus (home)
Tennis — LaSalle (home)
Golf — Delaware and St. Joseph's (home)
- 21 Baseball at Delaware
Religious Film (Social Committee)
- 25 Baseball — LaSalle (home)
Track — Pennsylvania Military College (home)
Tennis at Bucknell
- 27 Golf at Swarthmore
- 28 Baseball at Swarthmore
Track — Penn Relays
Tennis — Swarthmore (home)
Glee Club Concert — Goucher (home)

May

- 2 Baseball — Pharmacy (home)
Tennis at Lafayette
- 3 Golf — Drexel and LaSalle (home)
- 5 Alumni Day
Baseball at Ursinus
Track — Swarthmore (home)
Tennis — Lehigh (away)
- 9 Baseball — St. Joseph's (home)
Tennis — Franklin and Marshall (home)
- 11 Tennis at Penn
Golf at Lafayette; also with Temple
- 11 & 12 Drama Club at Haverford
- 12 Baseball — Moravian (home)
Track — Middle Atlantic Championships (away)
- 14 Golf — Middle Atlantic Championships (away)
- 16 Baseball — Pennsylvania Military College (home)
Tennis at Ursinus.

A concert series, admission by season ticket only, may be arranged for certain Friday evenings.

The schedule of Cricket matches, Sailing and Swimming meets will be arranged later.





<u>Offices</u>	<u>Extension</u>
Accounting	284
Addressograph Room	309
Admissions	243 or 244
Alumni	307
Athletic Director's	317
Bookstore	278
Counsellor's	247
Comptroller/Business Manager's	282 or 283
Coop/Snack Bar	279
Dean's	248
Development	300
Faculty Secretary's	287
Food & Housing	214 or 218
Guest Room 24	303
Guest Room 32	308
Housekeeper	305
Infirmary	228
Information	336
Library Circulation Desk	234
Library Reference Desk	323
Library Staff Office	235
Library Treasure Room	332
Mail Room	276
President's	241 or 242
Receptionist	285
Registrar's	246

NIGHT SERVICE

All internal calls may be completed at the time when the Business Office is closed, in the same manner as when the operator is on duty, except the calls to and from telephones connected for night service. In order to call any one of the offices listed below, dial the Midway number listed, using a telephone which is connected with a central office of the Bell Telephone Company.

When night connection is in effect, it is not necessary for users of the extensions listed below to dial "0" in order to place an outgoing call. It is sufficient only to lift the receiver, listen for the dial tone and dial the desired number. Telephone calls placed in the above manner should be reported to the operator during regular hours, for accounting purposes.

NIGHT LINES

When there is no operator on duty, use the following telephone numbers:

Walter Baker, Vice President, Development		Midway 2-0340
Hugh Borton, President	(242)	Midway 2-7307
Edytha Carr, Registrar	(246)	Midway 9-9601
Bertha Kratz, Nurse	(228)	Midway 2-3133
Archibald MacIntosh, Vice President, Admissions...	(244)	Midway 2-5704
Miriam Nugent, Director of Food & Housing	(214)	Midway 9-9606
Roy Randall, Gymnasium	(316)	Midway 9-9602
Ruth Reese, Library	(322)	Midway 9-9601
E.W.Roberts, Maintenance & Operation	(304)	Midway 9-9600
Walter Volkert, Maintenance & Operation	(220)	Midway 9-9600
Robert Walter, Chemistry	(207)	Midway 9-9602

For Guest Rooms see weekly listing of visitors for proper night line number.

PAY TELEPHONES

BARCLAY — 1st Floor	Midway 2-9524
FIELD HOUSE	Midway 9-9730
FOUNDERS HALL	Midway 2-9460
FRENCH HOUSE	Midway 2-9613
KITCHEN	Midway 2-9544
POWER HOUSE	Midway 2-9540
SHARPLESS BUILDING	Midway 9-9747
SCULL HOUSE	Midway 2-9516
UNION BUILDING	Midway 2-9514
WILLIAMS HOUSE	Midway 2-9428
HENRY S. DRINKER (MUSIC CENTER)	Midway 2-9521

OPERATIONS PERSONNEL

Skilled

Ellis W. Roberts,
Foreman

Samuel Brokus
Philip Daly
Vincenzo DiSanto
Roy Hargis
Arthur Kulp
Starling McCoury
Joseph Pezzetta
Charles M. Roberts
Joseph W. Tenaglio
William Alphin

Grounds

Walter Volkert,
Foreman

Louis Coursey
Carmen Ianieri
Giacomo Ianieri
George Kutzer
Julius Latney
Giovanni Martone
Perry McDaniel
Herman Morris
Vincenzo Piacere

Steam Plant

Clifford Chapin
Robert W. Slade

Mail Room

William Carter
Thomas Cavanaugh

Infirmary

Edward Satchell

Department of Food and Housing

Miriam R. Nugent, Director of Food & Housing

Edward Bryon
Joseph Banks
Roy Bell, Sr.
Roy Bell, Jr.
Joseph Cato
Harold Ford
Andrew Hudson
Joseph Jones
John Latney
Lloyd Melton
William Newton
Samuel Nottingham
Hammett Puryear
James Reid
George Royal
Randolph Satchell
Samuel Simpkins
Dock Young
Earl Wescott

Stanislaw Jaxa-Debicki,
Housekeeper

James Brinkley
Thomas Burns
Agathie Calvarese
Thommaso Colanero
John Davis
Ida DiMartino
John Elliot
John House
John Jordan
Samuel Lake
Antonetta Mancini
Antonietta Piacere
Thomas Ragland
George Razionale
John Savage
Otha Savage
Carmela Scutti
Antonio Valente
Rosa Valente
Giovanna Vizzarri

Coop

James Foster
Henry Green

<u>Name</u>	<u>Home Address</u>	<u>College Address</u>	<u>Private Phone</u>
ZAPP, John A.	318 Marshall St., Kennett Square, Pa.	307B	2-1261
ZOBIAN, Edward J.	5472 Baltimore Ave., Phila. 43, Pa.	Day	Gr 6-8142

FRESHMAN CLASS

Adelman, Richard L.
Aronoff, Robert
Bagby, George F., Jr.
Balderston, R. Davis
Baskerville, Robert A.
Bazelon, Richard L.
Becker, William L.
Berland, Kerry S.
Berrien, Steven
Berson, Robert J.
Brinkman, Christian K.
Brookes, David G.
Brous, Hubert W.
Brown, Thomas S., Jr.
Bunim, Michael B.
Busey, David M.
Carson, Reed W.
Chace, Jonathan
Cobbs, John L.
Cole, Peter
Cordi, Stephen M.
Crooks, Geoffrey L.
Dean, William W.
Elms, J. Jay
Evans, Derek
Falls, William F.
Flaccus, David W.
Flachbarth, Charles T.
Flinker, Norman
Forkin, Daniel
Fox, Haigh P.
Frank, Charles W.
Fraser, David W.
Freeman, Thomas P.
Friedman, Walter
Fry, W. Reed, III
Gage, Hugh R.
Gallway, Robert A.
Garson, James W.
Georges, Michael P.
Gillingham, Robert F.
Griffiths, David W.
Gruen, Robert C.
Haberkern, Roy C., III

Hawkins, Philip H.
Hetzel, Jonathan K.
Hipkens, Robert W.
Hirst, James E.
Holzer, Charles E., III
House, James S.
Hsu, George S.
Inui, Thomas S.
Johanson, S. Frederic
Johnston, J. William, Jr.
Kac, Michael B.
Kagiri, Samuel N.
Kasser, Stephen J.
Kies, David M.
Kimesera, Victor P.
Lawrence, Charles R.
Lee, Lloyd C.
Lehman, Jonathan E.
Letts, Laurence Alan
Liechty, Thornton A.
Liam, G. Ramsay
Livingston, James B.
MacBride, J. Douglas
Mattick, Paul
Morris, Harold H., III
Morris, Richard A.
Moskovitz, Peter A.
Nelson, C. M. Kinloch
Nichols, George C.
Padgett, Frederick, Jr.
Pancoast, Howard W.
Parkinson, John S., Sr.
Pendleton, Thomas S.
Perisho, Robert C.
Peterson, Robert F., Jr.
Petzinger, Robert C.
Phelps, Andrew R.
Polster, David F.
Pritchard, Stanford M.
Rainey, Michael L.
Reuben, Walter K.
Rignall, Charles E.
Rosso, John P.
Salazer, Jorge E.

Sarver, Eugene
 Schack, Robert J.
 Schrank, W. Winslow
 Scoll, Jonathan P.
 Sifferlan, Allan P.
 Simmons, Robert R.
 Smith, Griffith G., Jr.
 Sonnenborn, Donald E.
 Spencer, Harrison C.
 Steer, Robert A.
 Stept, Michael E.
 Stern, Roland C.
 Stevens, Michael N.
 Stites, Clay Van E.
 Taylor, James F.

Toan, Robert W.
 Tuber, Joel A.
 VanNewkirk, Philip E.
 Vernon, Richard G.
 Wallon, Lewis A., Jr.
 Watson, John W.
 Webster, Stephen H.
 Weil, Frederick W.
 Weller, Jack M.
 Whitman, Walt H.
 Woodward, Robert S., IV
 Yelon, William B.
 Youman, Ion O.
 Young, Clifton A.
 Zapp, John A., III

SOPHOMORE CLASS

Aird, John C.
 Andrews, Edward S.
 Bates, Robert H.
 Berman, Bernard J.
 Birmingham, Lewis W.
 Bockol, Richard M.
 Brinton, Keith
 Bundy, James F.
 Carson, Frederick G.
 Chamberlin, John S.
 Coblentz, Jay M.
 Cook, David G.
 Cook, Michael J.
 Cooper, Richard M.
 Couch, George N.
 Crum, Jonathan R.
 Dallolio, Stephen J.
 Darnell, John H.
 De Wilde, Daniel N.
 Dodd, Terron K.
 Donaldson, James O., III
 Dott, Andrew B., III
 Eisele, John W.
 Ellis, John R.
 Elmer, Robert E.
 Fales, Evan M.

Filstrup, Edward C.
 Gardner, Darien A.
 Glass, Christopher C.
 Gordon, John A.
 Harris, Ruffin K.
 Harshaw, Edward, II
 Henderson, Phillip L.
 Holland, John K.
 Hopper, Paul T.
 Ings, William C.
 Jackson, David M.
 Jacobs, Christopher
 Jones, J. Morrow
 Kabat, Jonathan P.
 Kanes, Lee S.
 Kurian, Stephen C.
 Larkin, E. Daniel
 Learned, William D.
 Leppik, Ilo E.
 Lerner, David E.
 Levin, Murray S.
 Lewis, Charles D., III
 Lob, Eric
 Lucas, Peter W.
 Luke, Richard F.
 Macan, William A., IV

MacDowell, Peter P.
Macmillan, Neil A.
Major, John S.
Malandra, William W.
McDougal, Stuart Y.
Mick, Robert L.
Mitchell, R. Garrett
Moore, Donald R.
Munger, Robert S., Jr.
Nelson, Michael S.
Nevin, Michael P.
Olton, David S.
Oyelaran, Olasope O.
Pearlstine, I. Norman
Penzell, Michael E.
Phipps, Ralph D.
Popper, Frank J.
Ratajczak, Donald
Reed, Thomas A.
Reinfeld, Don J.
Richardson, Robert F.
Riordan, Robert C.
Robertson, Richard A.
Robinson, Harry M., III
Ruppenthal, John B.
Salmen, Lawrence F.
Sargent, George A., III
Scherer, Peter W.
Schofield, Robert D.
Seagren, Barry D.
Shafer, William A.
Shapiro, Ronald M.

Shoemaker, John C.
Shuman, Robert M.
Silvers, David N.
Smith, Edward J., Jr.
Smoluk, John R.
Snow, Robert M.
Snyder, William B.
Sonnenborn, Monroe R.
Spaeth, J. Douglas
Sterrett, Timothy S.
Stewart, Charles V.
Strang, Charles L.
Stulting, Harry C.
Sunderman, Joel B.
Todaro, Michael P.
Tomaro, John B.
Transue, Jacques H.
VanBerg, Richard P.
Wademan, Ross L.
Ward, Stephen A.
Wertime, Richard A.
Whittington, DeWitt P.
Wightman, Frederic L.
Wilcox, Homer B., III
Williams, Eliot P.
Williams, John A.
Williamson, Alan B.
Wolin, Steven A.
Wood, Arthur S.
Yaffe, David L.
Zangerle, John A.

JUNIOR CLASS

Andrews, Raymond W., Jr.
Auer, Lawrence H.
Barber, G. Putnam
Barlow, Barry H. A.
Bates, David T.
Beik, William H.
Belanger, Terry B.
Bernheimer, Charles C.
Bibber, Henry G.
Blumberg, Herbert H.

Blumenthal, James D.
Bobrovnikoff, Stephen
Bowles, Francis P.
Carroll, John S.
Cole, John R.
Conn, Charles B., III
Cook, John R.
Crane, Alan T.
Crawford, Dan D.
Daneker, David C.

Darlington, Horace F., Jr.
David, S. Roy
deRis, G. Raymond
Dorwart, William V., Jr.
Downs, C. B. Tertius
Eddy, Peter A.
Ettinger, Stephen J.
Ezerman, Robert H.
Fasoldt, Ranson C.
Flanders, Steven
Franklin, Joseph E., Jr.
Foerster, Bruce S.
Geddes, James F., Jr.
Ghiglione, Loren F.
Gilbert, Ian R.
Gillam, B. Scott
Grambs, Jeffrey W.
Hall, David B.
Hammaker, Wayne E.
Hartman, Edwin M.
Herzel, Roger W.
Heuss, John F.
Hilliard, Kirk L., Jr.
Hiltebeitel, Alfred J.
Hollander, Sidney
Houston, George W.
Houston, John D., II
Hunt, David
Johnson, John P.
Johnson, Stephen C.
Kannerstein, Gregory
Kauffman, Christopher P.
Kelley, William S.
Kohn, Roger L.
Lary, Peter Hal
Lawn, W. Geoffrey
Lederberg, Bernard
Lehner, Andreas P.
Leonard, David K.
Levi, William G.
Levitt, Stuart L.
Liesveld, John H., Jr.
Lipez, Kermit V.
MacRae, James B., Jr.
Margolis, John D.
McConaghy, John S., Jr.
Mechling, William H., III
Mervine, William R.
Miller, Robert F.

Morrissey, Charles W.
Moyer, Paul R.
Noell, K. Thomas
Nolte, Robert W.
Norberg, H. Peter
Northrup, Ernest T.
Oelkers, Wilson H., Jr.
Phillips, William H.
Pollard, Frank H.
Powers, Charles W.
Quill, E. Spencer
Quint, Arnold H.
Raach, Frederick E.
Richardson, James I.
Riggan, William G.
Roberts, John H.
Rose, Timothy L.
Ruberg, Robert L.
Ruff, John D.
Saint, Harry F.
Schulze, Joseph R.
Schweitzer, Thomas M.
Schwentker, Edwards P.
Shermer, William B.
Siegel, Andrew
Sinclair, Paul F.
Smiley, Daniel C.
Smith, Charles W.
Smith, George P.
Smith, Kent G.
Smith, Stephen S.
Spring, Michael H.
Stanley, Frank J., III
Stavis, Benedict R.
Stone, Alan N.
Taylor, Joseph H., Jr.
Thrall, Charles A.
Unger, Richard W.
Vincent, Anthony F.
Walton, Anthony J.
Weber, Michael J.
Werner, Michael W.
Wertime, John T.
Westberg, Russell E.
Wichura, Michael J.
Williams, Lindsley
Wilson, Peter N.
Winterer, Joerg C.
Wood, John S.

SENIOR CLASS

Adams, Donald W.
Adams, Jack Rhodes
Akashi, Norio
Allendoerfer, Robert D.
Aronoff, Michael S.
Atchison, D. Alan
Baehr, Joel D.
Baldwin, Malcolm F.
Barlow, Thomas J., III
Bemis Robert
Blair, John F., Jr.
Blauvelt, Gerritt H.
Block, James A.
Borton, James W.
Bower, John R.
Burgin, James M.
Cocke, C. Lewis, Jr.
Cooper, Jeffery M.
Dahlberg, James E.
deLuca, Robert N.
DeNie, Frans M.
Dent, Walter J.
deRis, C. Owen
Erb, William H.
Faulhaber, Gerald
Fisher, Stephen W.
Flaccus, Jonathan
Fowler, Albert W.
Fowler, R. Booth
Fox, John D.
Freedberg, Richard G.
Freeman, George W.
Freilich, William B.
Gaetjens, David L.
Gage, Vance A.
Garrett, Peter K.
Gould, Richard G.
Gray, Harold S.
Gwatkin, Davidson R.
Hampden, Michael D.
Hartman, Mark L.
Hauri, Theodor M.
Helsinger, Howard M.
Hemmingway, David H.

Hirst, John A.
Holtzman, Garry L.
Hoopes, James B.
Jenkins, Harold D.
Jenks, Robert H.
Klinger, Forrest E., Jr.
Knight, Donald D.
Knox, Hugh W.
Kovacsics, Gyula
Lane, Peter O.
Larson, Lex K.
Lewis, Timothy
Linville, Robert W.
Lippard, Stephen J.
Lynn, Robert W.
MacBride, James R.
MacLeod, Kenneth A., Jr.
Mears, Preston K., Jr.
Meyer, James I.
Middleton, J. Howard, Jr.
Miller, Stephen H.
Monkemeyer, H. Shenton
Morgan, K. Scott
Musgrove, Philip A.
Nakayama, Ken
Natelson, Ethan A.
Parker, Richard B.
Parker, William E.
Penn, Richard D.
Petraske, Alan R.
Robinson, Charles R.
Rodell, Michael
Roever, Frederick H.
Sah, Benn Chih-Mao
Salisbury, Roger E.
Sanford, Frederic G.
Sedwick, W. David
Sharpless, Thomas K., Jr.
Shillock, J. Christopher, III
Snider, Donald L.
Stafford, Craig F.
Stanley, Matthew W., Jr.
Steigman, William F.
Stevenson, Karl W.

Strickler, Matthew
Tai, George Marshall
Talbot, David N.
Tannenbaum, Robert S.
Turner, Daniel S.
Waddell, Lucian A., Jr.
Waite, Stephen Van Fleet

Warfield, Robert B., Jr.
Watkins, Charles B.
Weyand, James G. M., Jr.
Williams, John G.
Williams, John Steele, Jr.
Yearley, Lee H.
Zobian, Edward J.

SPECIAL STUDENTS

Maruyama, Shunji
Shafer, Stephen J.
Strutzke, Hans

GRADUATE STUDENT

Pontara, Giuliano

Administration



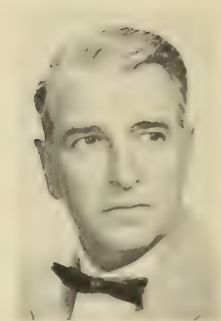
W.W. AMBLER



W.C. BAKER



P.G. BENNETT



H. BORTON



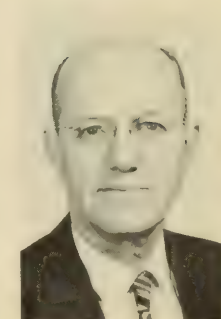
W.E. CADBURY



E.M. CARR



A. CASELLI



F.D. COMFORT



B.S. COOPER



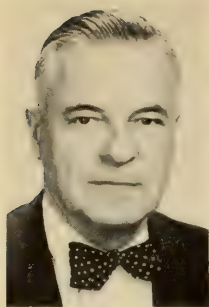
B. KRATZ



R.D. KUBIK



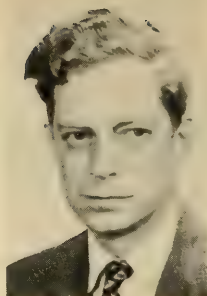
W. LANDER



A. MAC INTOSH



M. R. NUGENT



C. PERRY



C. R. THOMPSON

Faculty



AVERY ANDREWS



M.J. ASENSIO



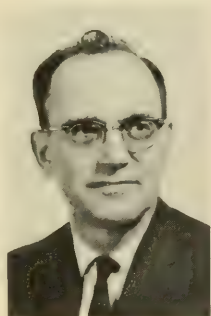
J. ASHMEAD



P.W. BELL



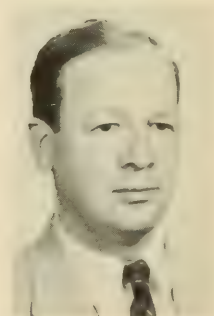
T.A. BENHAM



CLAUDE BOWMAN



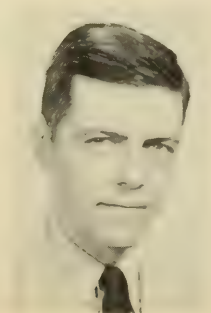
J. BROOKS



R.H. BUTMAN



H. J. CADBURY



J.R. CARY



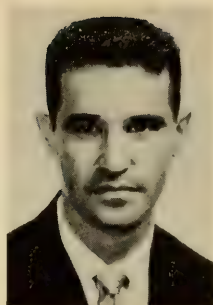
H. COMFORT



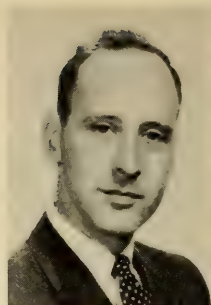
B. COOK



GUY DAVENPORT



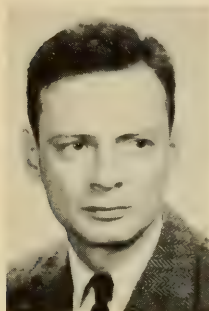
WM.C.DAVIDON



J.DAVISON



F.DE GRAAFF



P. DESJARDINS



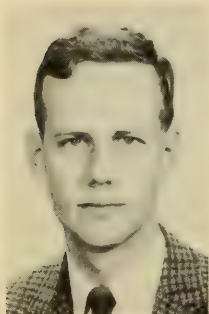
A.DIAMANT



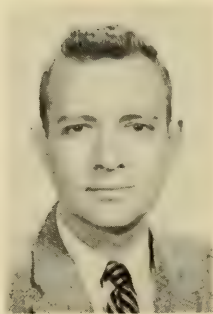
W. DOCHERTY



T.E.DRAKE



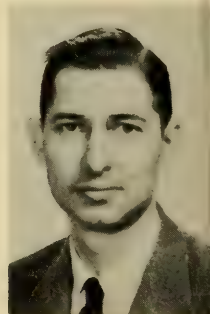
H.C.DUNATHAN



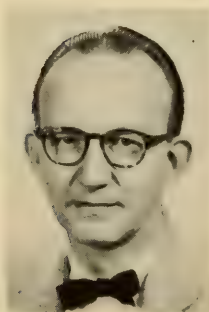
I.FINGER



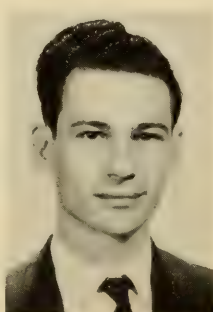
J. FOWLE



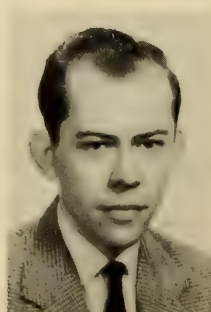
H.GLICKMAN



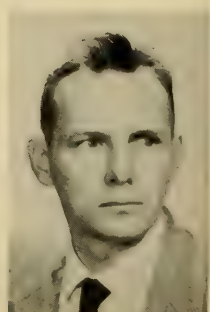
L. GREEN



M.GUTWIRTH



J.HARPER



D. HEATH



T.B. HETZEL



C. HOLMES



H. HUNTER



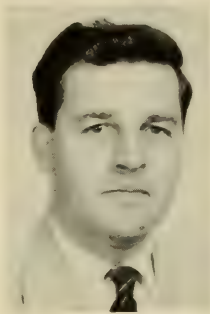
D. HUSEMOLLER



WM. JELLEMA



G.A. KENNEDY



J.A. LESTER



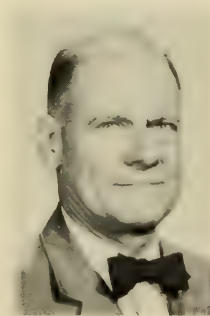
A. LOEWY



ELEANOR MAASS



C.F. MAC KAY



C.O. OAKLEY



F.H. PARKER



SYDNEY PERLOE



H.W. PFUND



E. PRUDENTE



F. QUINN



R.E. RANDALL



W. REESE



IRA REID



C. ROBBINS



E.S. ROSE



D.L. ROSENHAN



O. RUDOLPH



M. SANTER



MRS. U. SANTER



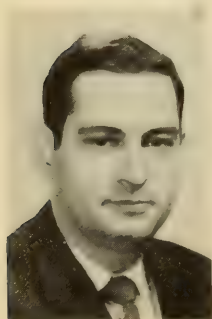
A. SATTERTHWAITE



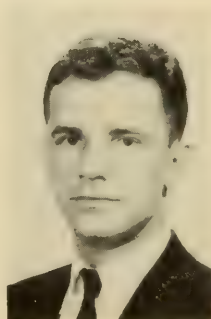
F. SELOVE



E. SHOWALTER



E. SMOLENSKY



L. SOLOMON



H.M. SOMERS



G.E. SPIEGLER



J. SPIELMAN



S.M. TATNALL



H.M. TEAF

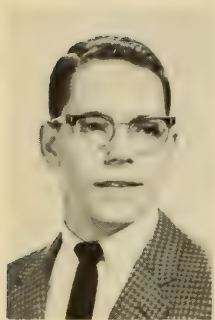


R.I. WALTER

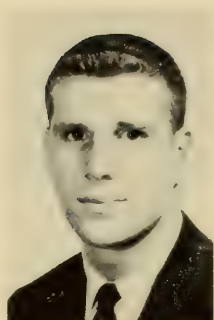


N. WILSON

Freshmen



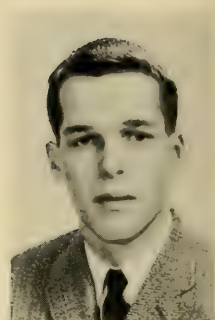
ADELMANN, R.L.



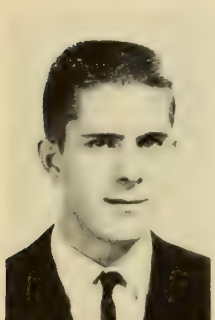
ROBERT ARONOFF



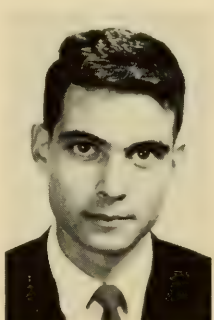
G.P. BAGBY, JR.



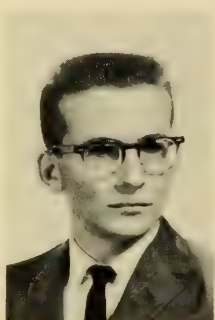
R.D. BALDERSTON



R.A. BASKERVILLE



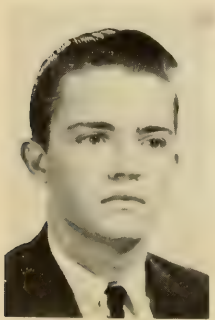
R.L. BAZELON



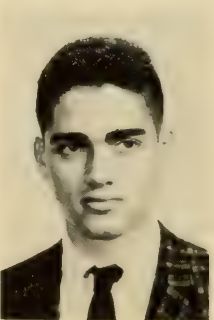
WM. L. BECKER



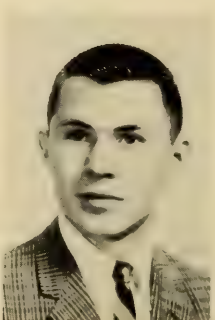
K.S. BERLAND



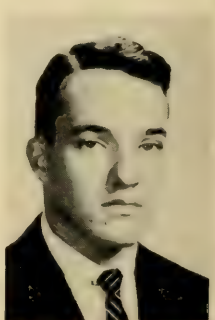
STEVEN BERRIEN



ROBERT BERSON



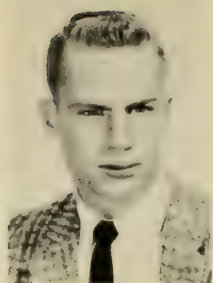
C.K. BRINKMANN



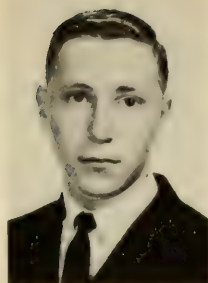
DAVID BROOKES



HUBERT BROUS



T.S. BROWN, JR.



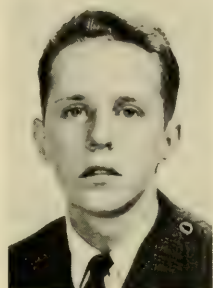
MICHAEL BUNIM



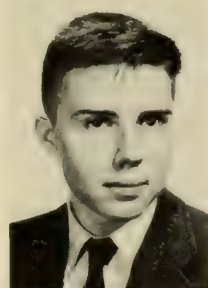
DAVID M. BUSEY



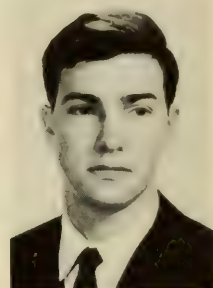
REED CARSON



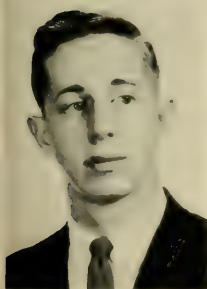
JONATHAN CHACE



JOHN L. COBBS



PETER COLE



STEPHEN CORDI



GEOFFREY CROOKS



WILLIAM DEAN



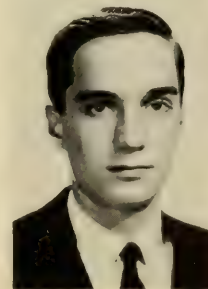
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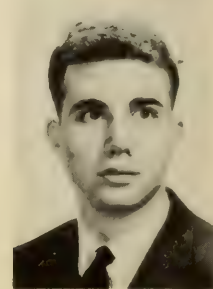
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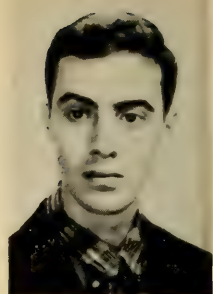
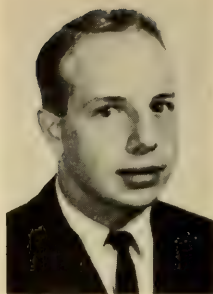
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DAVID FLACCUS



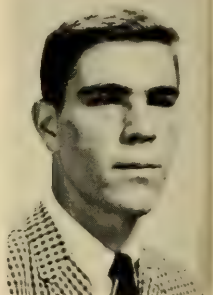
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HAIGH P. FOX

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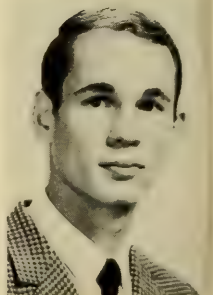
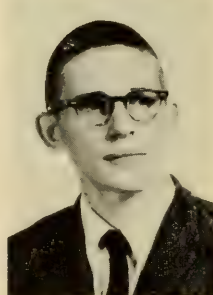
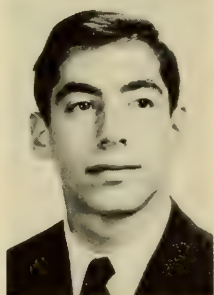
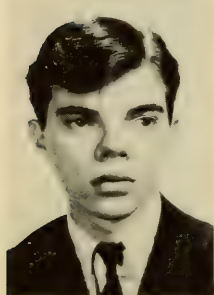


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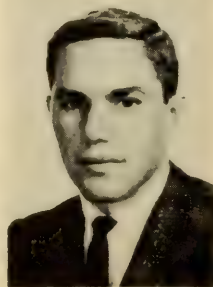
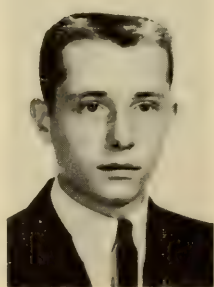


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JAMES GARSON

MICHAEL GEORGES

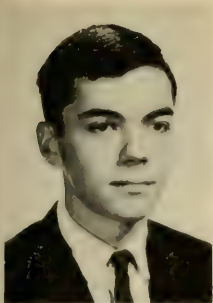


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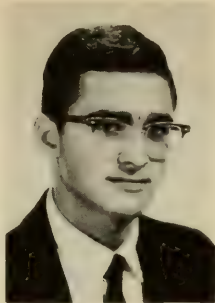
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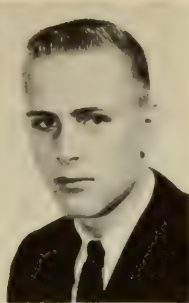
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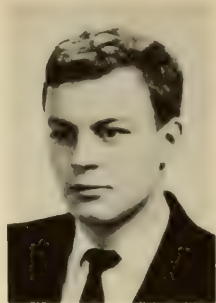
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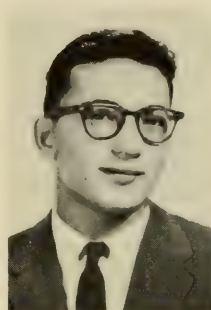
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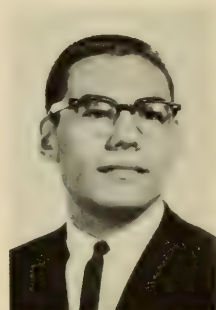
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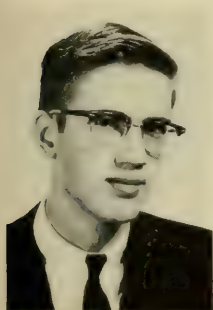
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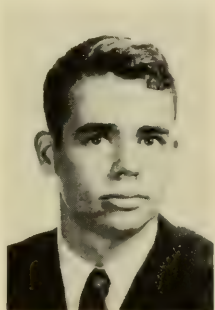
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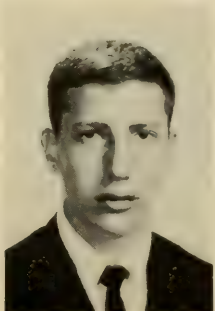
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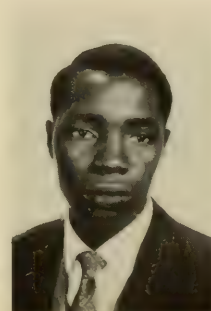
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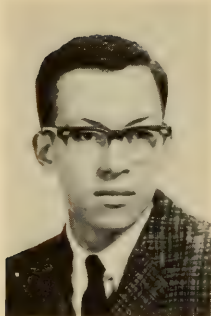
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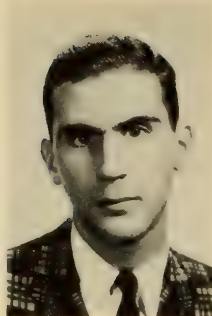
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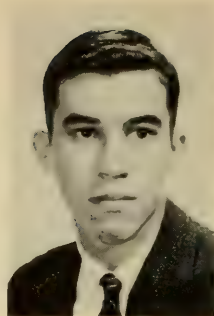
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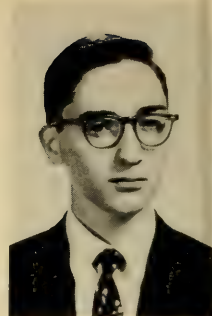
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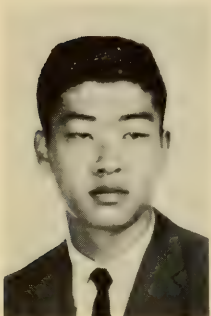
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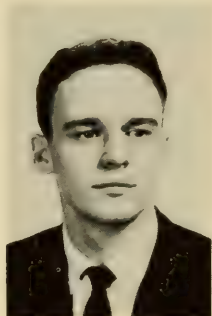
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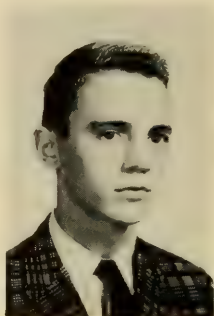
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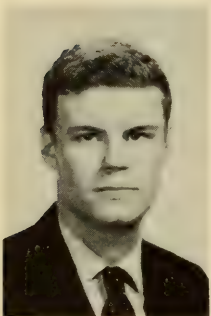
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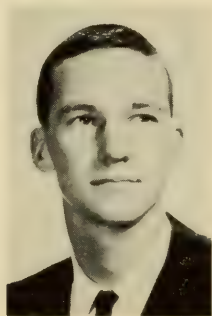
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PAUL MATTICK



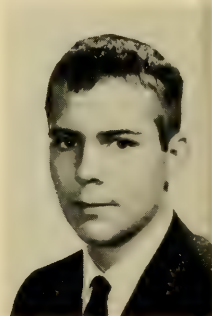
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RICHARD MORRIS



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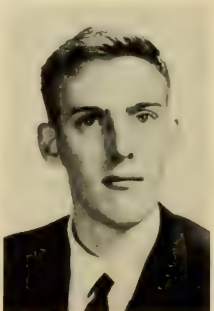
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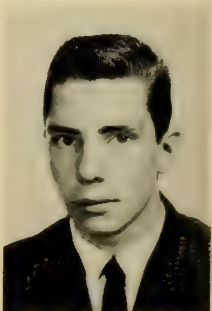
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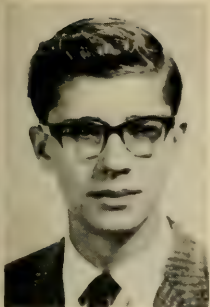
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H. W. PANCOAST



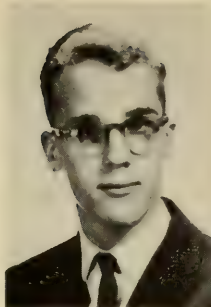
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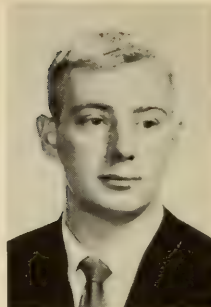
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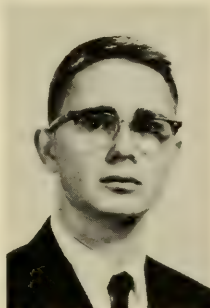
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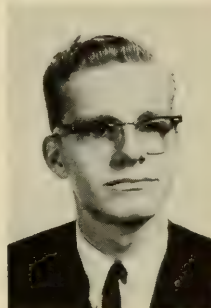
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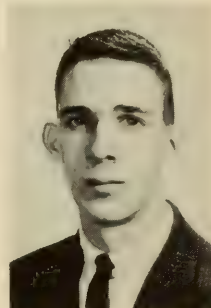
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DAVID POLSTER



S.K. PRITCHARD



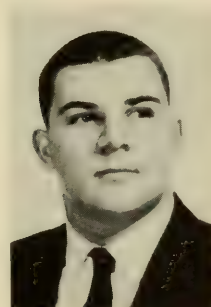
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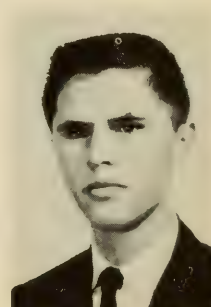
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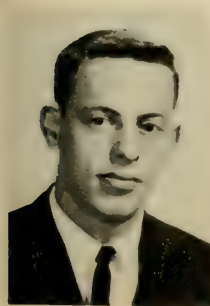
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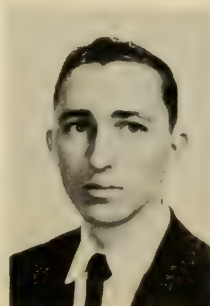
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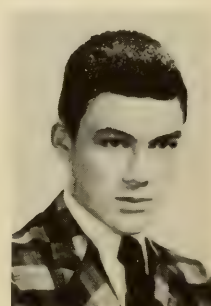
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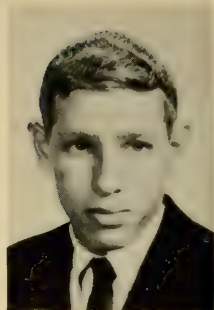
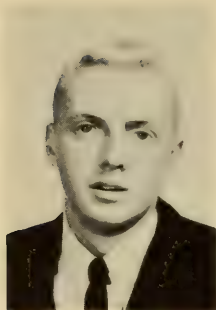
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W.W. SCHRANK



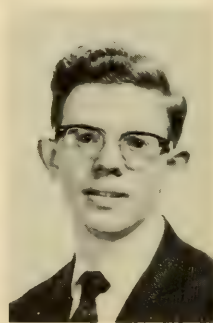
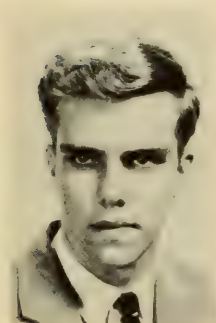
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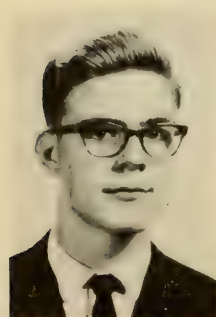
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H.C. SPENCER MICHAEL STEPT ROLAND STERN MICHAEL STEVENS



CLAY STITES JAMES TAYLOR ROBERT W. TOAN JOEL A. TUBER



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S.H.WEBSTER



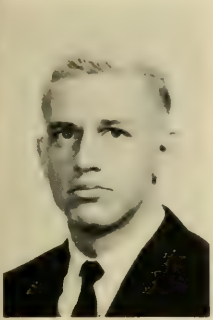
FREDERICK WEIL



JACK M.WELLER



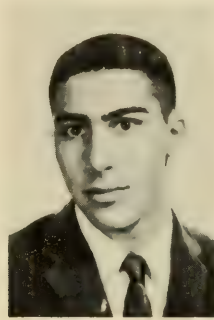
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WALT WHITMAN



R.S.WOODWARD



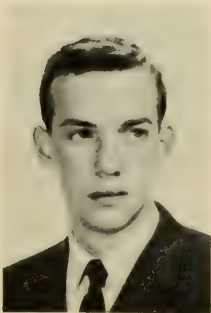
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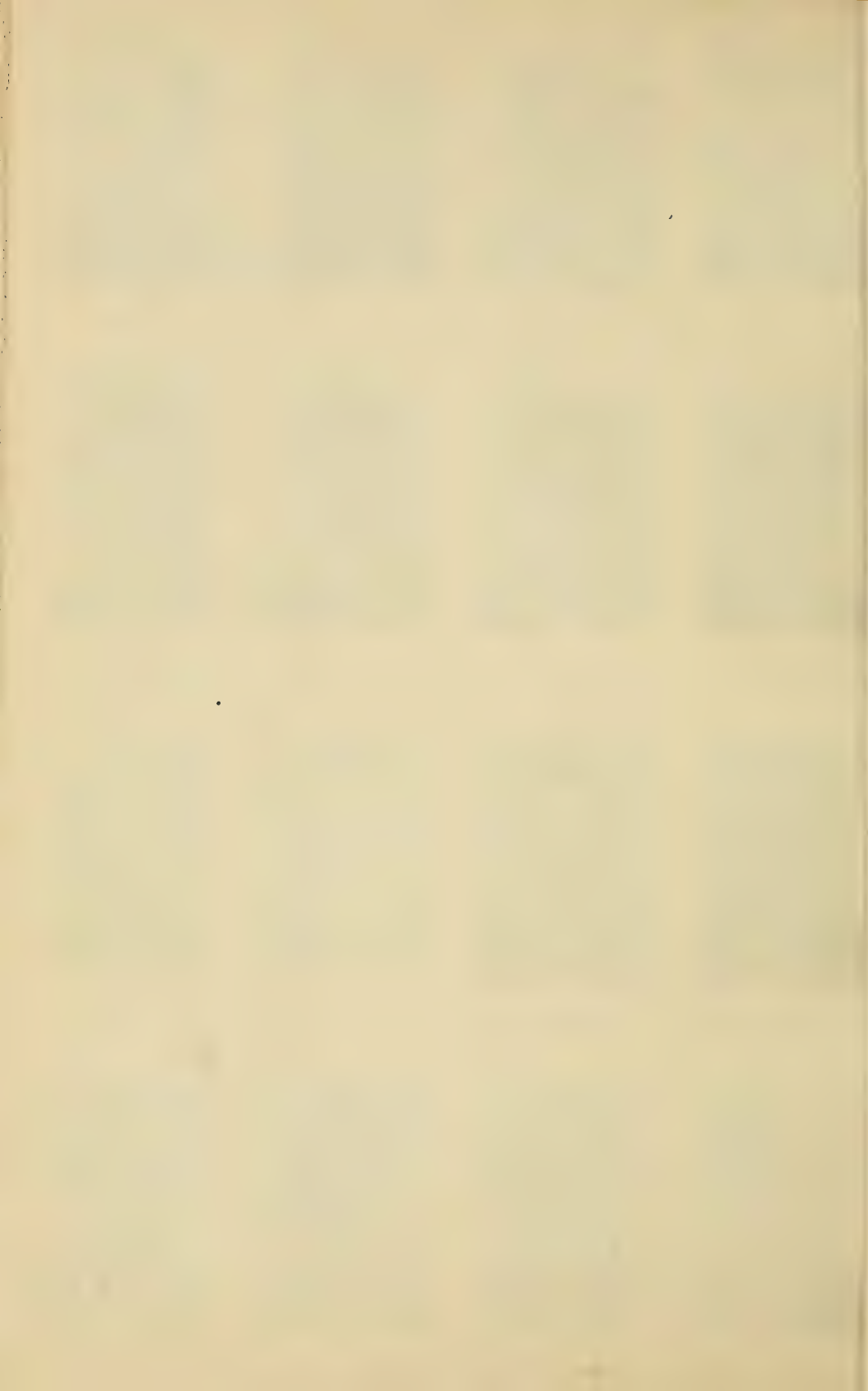
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CLIFTON YOUNG



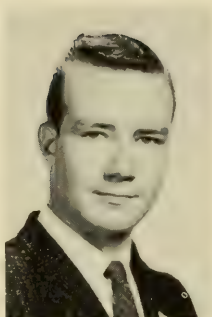
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Sophomores



J.C. AIRD



E.S. ANDREWS



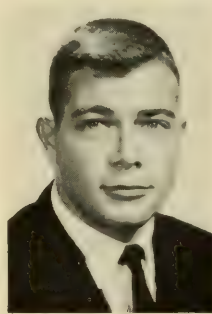
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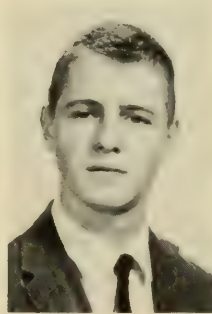
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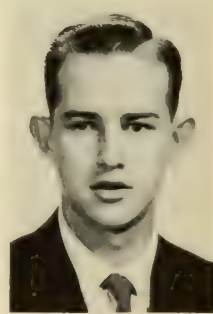
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R.M. BOCKOL



KEITH BRINTON



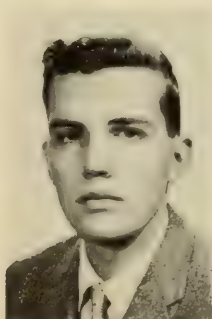
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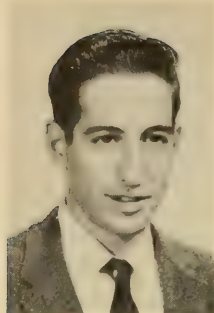
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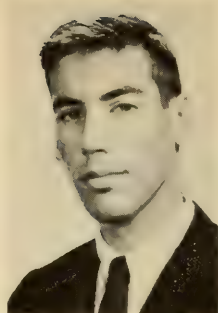
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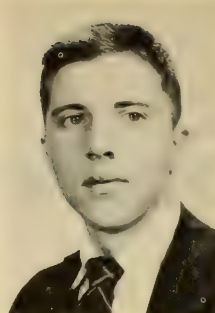
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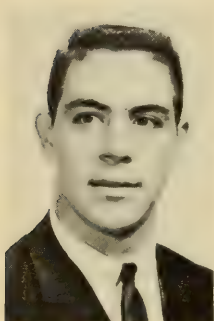
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G. N. COUCH



J. R. CRUM



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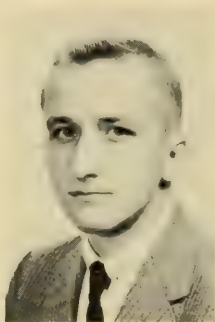


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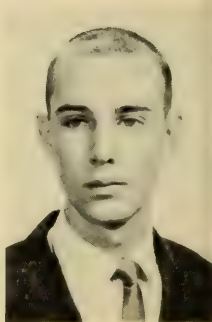


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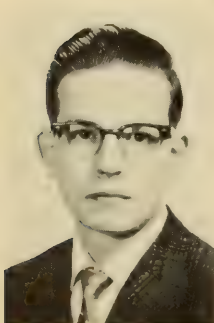
SEE SUPPLEMENT



J. W. EISELE



J. R. ELLIS



R. E. ELMER



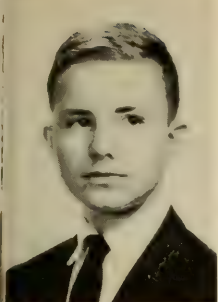
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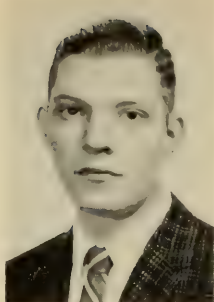
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D. A. GARDNER



C.C.GLASS



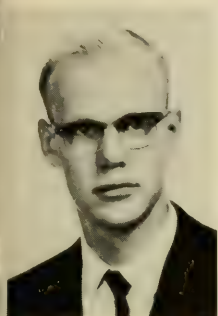
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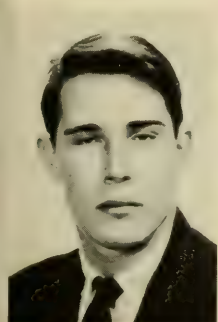
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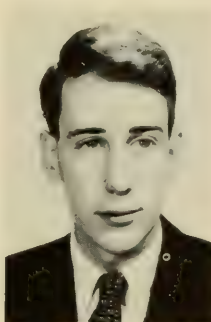
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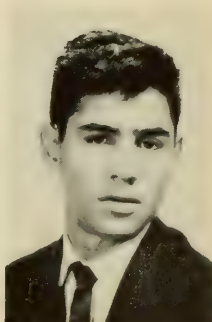
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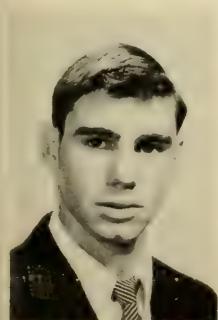
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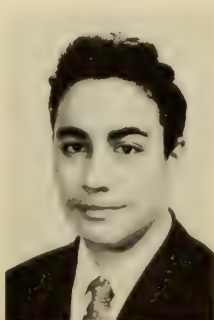
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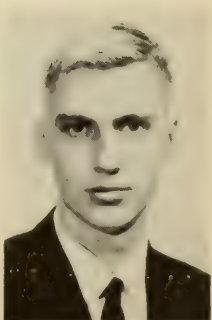
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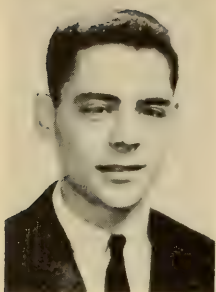
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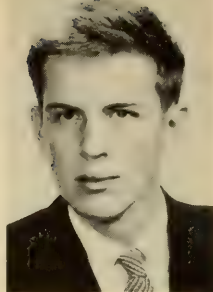
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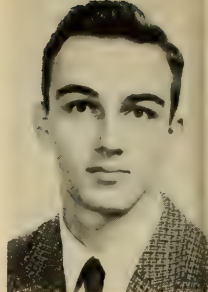
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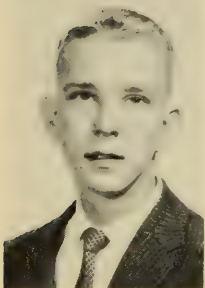
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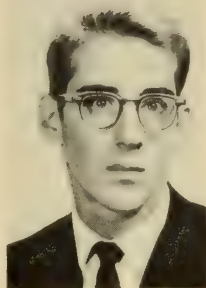
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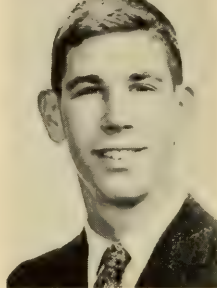
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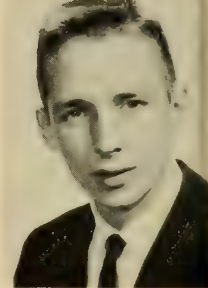
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R.F. LUKE



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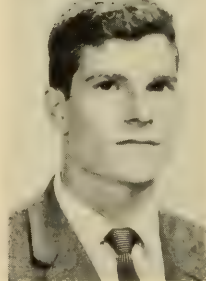
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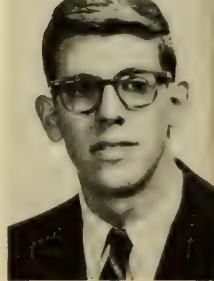
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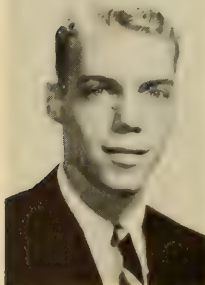
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W.W. MALANDRA



S.Y. MC DOUGAL

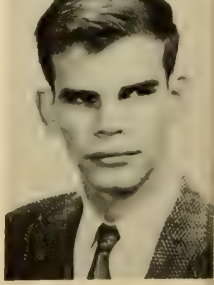


R.L. MICK



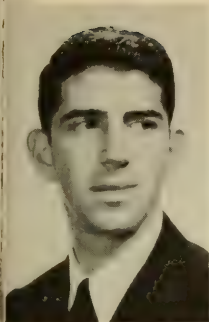
R.G. MITCHELL

SEE SUPPLEMENT

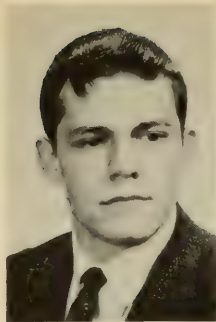


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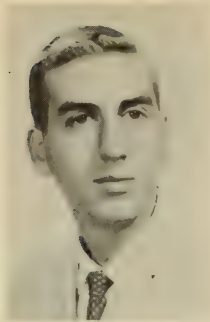
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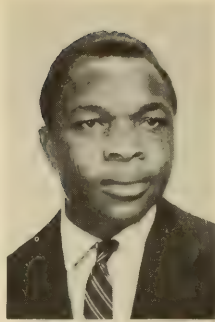
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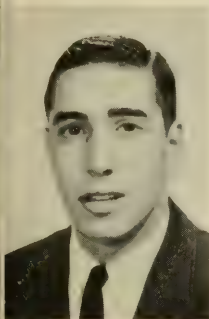
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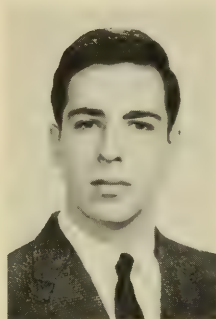
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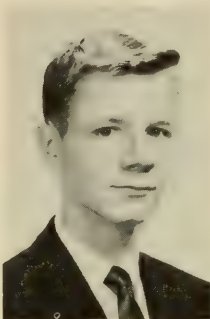
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N. PEARLSTINE



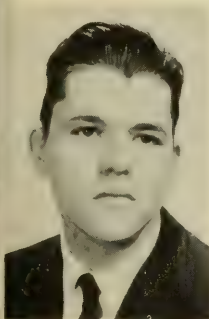
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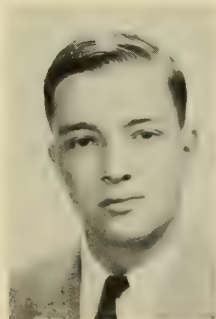
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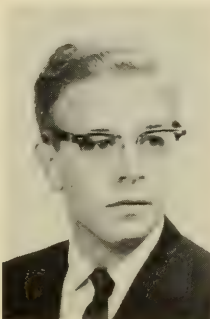
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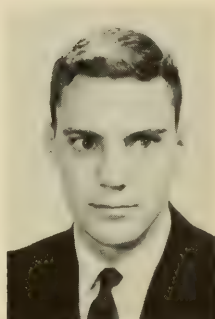
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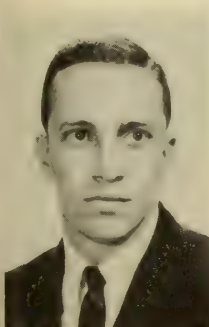
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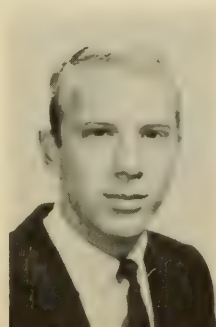
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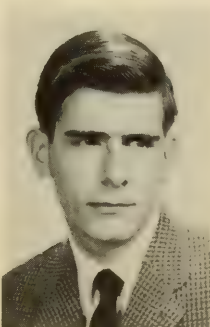
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R.C. RIORDAN



R.A. ROBERTSON



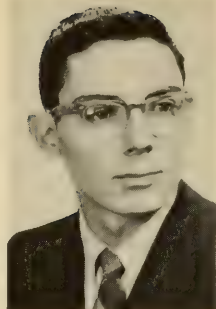
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J.B. RUPPENTHAL



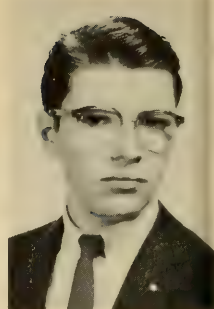
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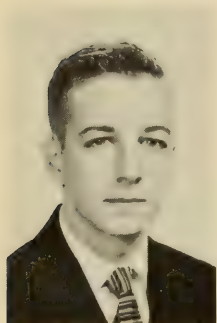
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P.W. SCHERER



R.D. SCHOFIELD



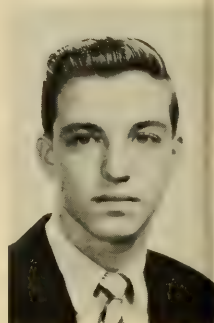
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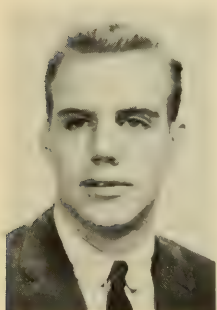
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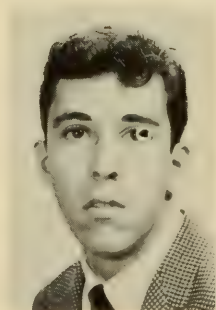
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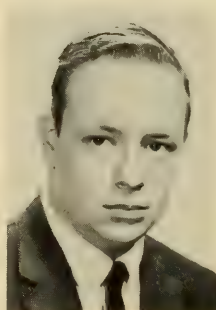
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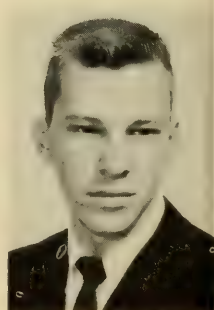
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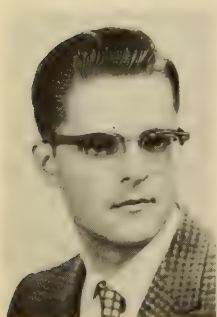
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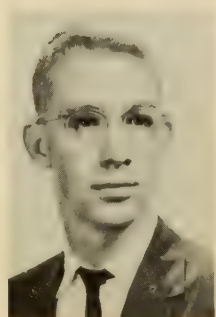
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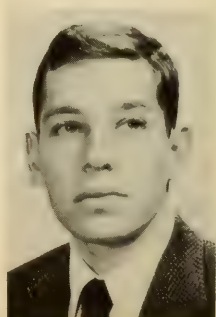
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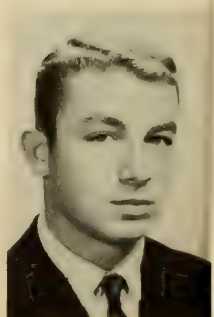
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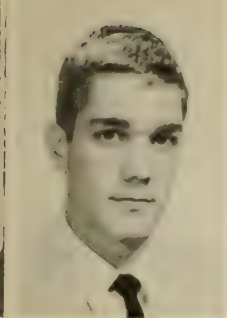
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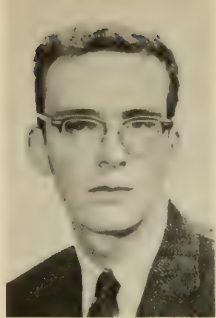
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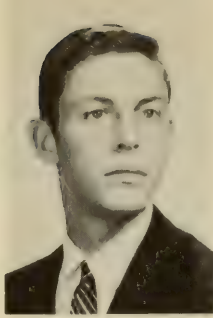
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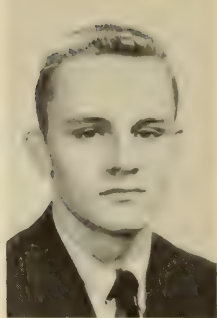
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C.V. STEWART



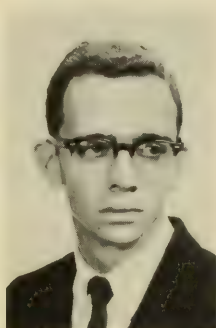
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H.C. STULTING



J.B. SUNDERMAN



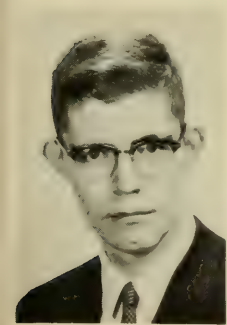
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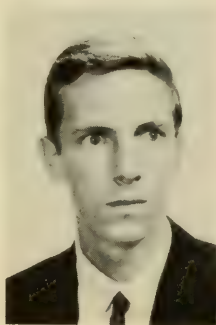
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J.H. TRANSUE



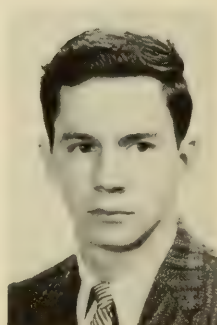
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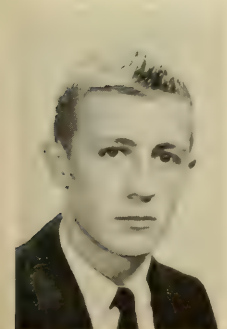
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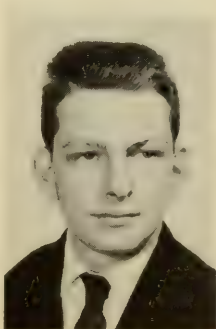
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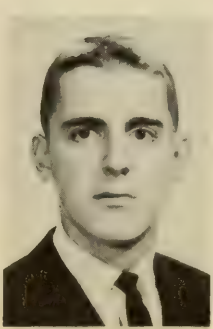
S.A. WARD



R.A. WERTIME



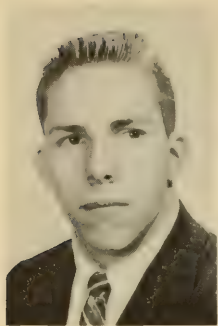
D.P. WITTINGTON



F.L. WIGHTMAN



H.B. WILCOX



E.P.WILLIAMS



J.A.WILLIAMS



A.B.WILLIAMSON



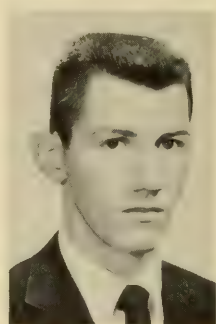
S.A.WOLIN



A.S.WOOD



D.L.YAFFE



J.A.ZANGERLE

Juniors



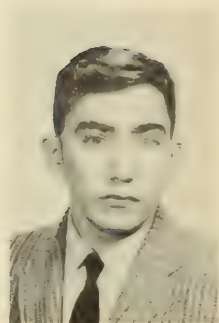
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L.H. AUER



G.P. BARBER



B.H. BARLOW



D.T. BATES



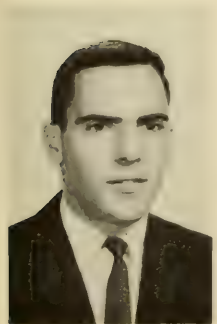
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T.B. BELANGER



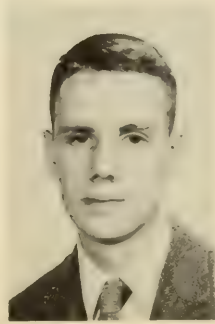
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H.G. BIBBER



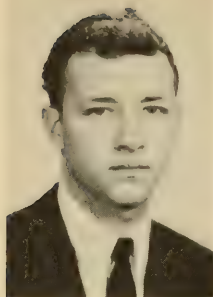
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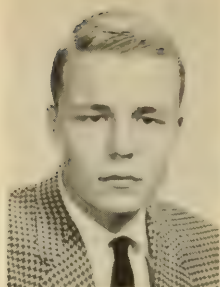
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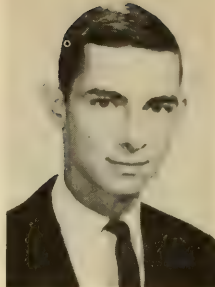
S. BOBROVNIKOFF



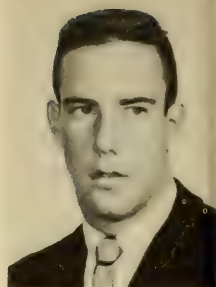
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J.S.CARROLL



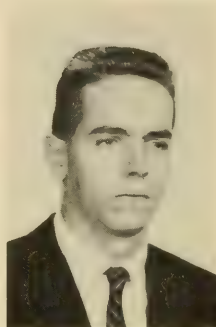
J.R.COLE



C.B.CONN



J.R.COOK



A.T.CRANE

SEE SUPPLEMENT



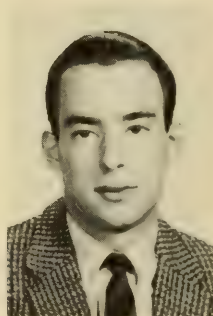
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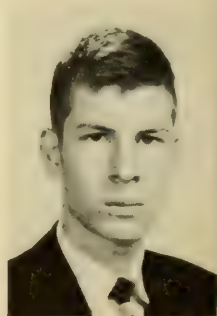
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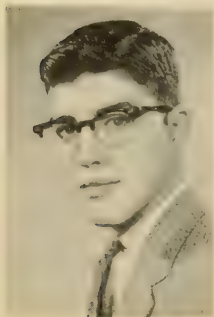
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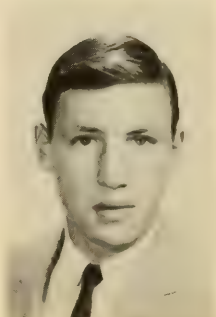
G.R.DE RIS



W.V.DORWART



C.B.T.DOWNS



P.A.EDDY



S.J.ETTINGER



R.H.EZERMAN



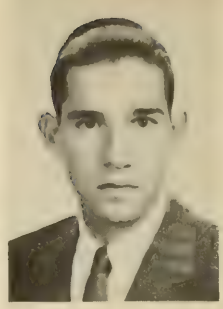
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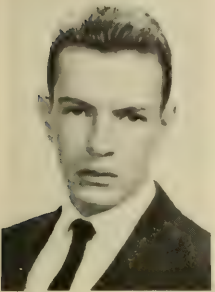
S.FLANDERS



B.S.FOERSTER



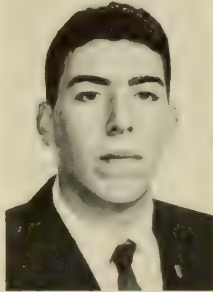
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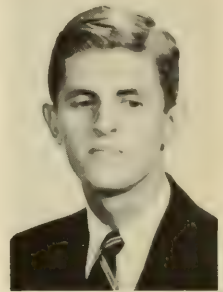
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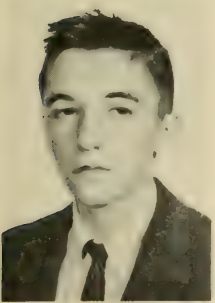
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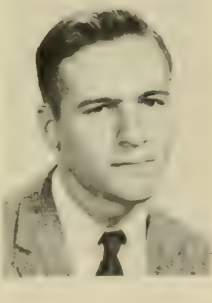
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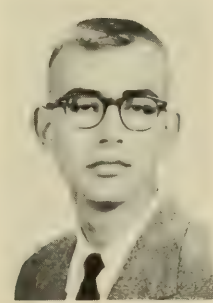
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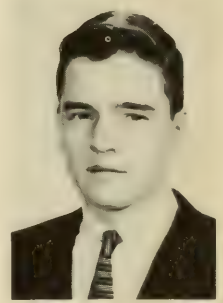
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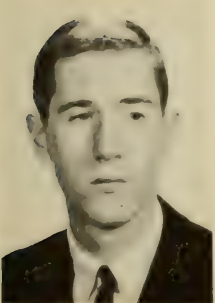
D.B.HALL



W.E.HAMMAKER



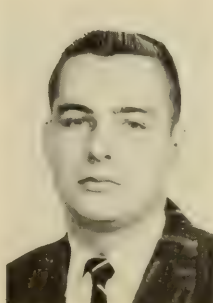
E.M.HARTMAN



R.W.HERZEL



J.F.HEUSS



K.HILLIARD



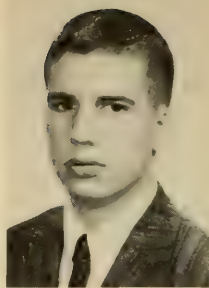
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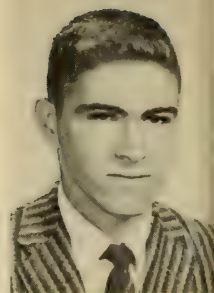
S. HOLLANDER



G.W. HOUSTON



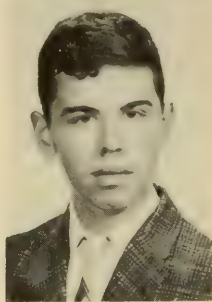
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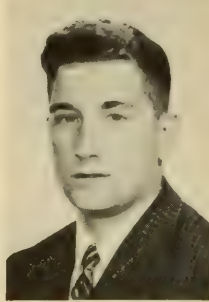
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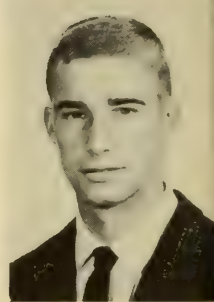
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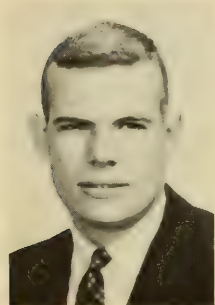
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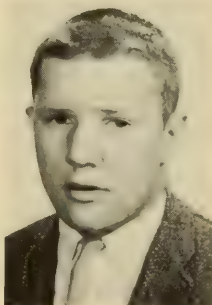
G. KANNERSTEIN



C.P. KAUFFMAN



W.S. KELLEY



T. KESSINGER



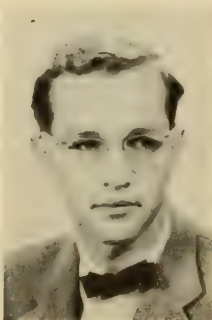
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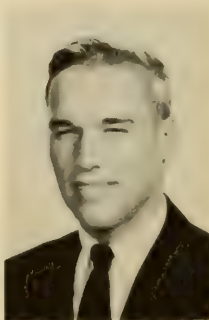
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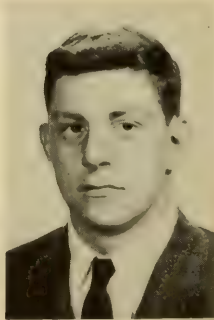
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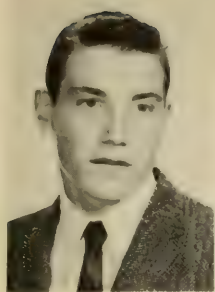
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D.K. LEONARD



W.G. LEVI



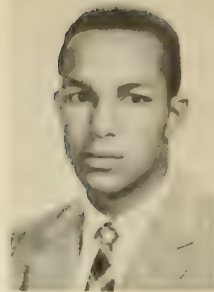
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J.H.LIESVELD



K.V.LIPEZ



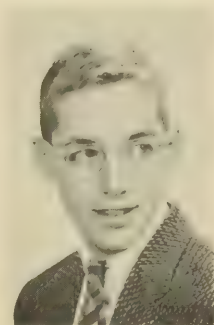
J.B.MAC RAE



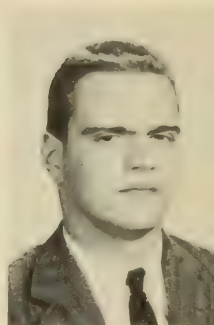
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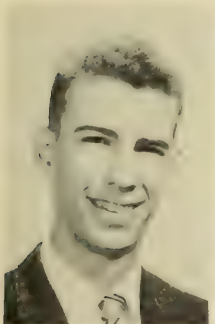
J.S.MC CONAGHY



W.H.MECHLING



W.R.MERVINE



R.F.MILLER



C.W.MORRISEY



P.R.MOYER



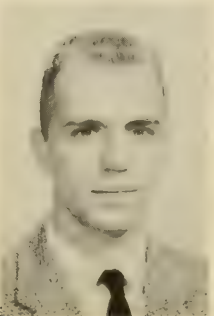
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R.W.NOLTE



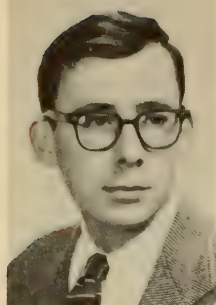
H.P.NORBERG



E.T.NORTHRUP



W.H.OELKERS



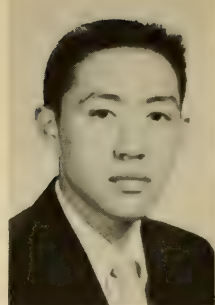
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F.H. POLLARD



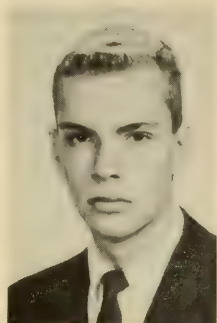
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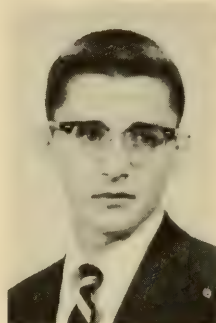
E.S. QUILL



A.H. QUINT



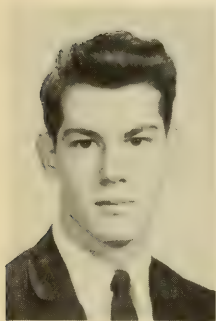
F.E. RAACH



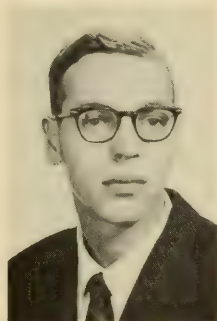
J.I. RICHARDSON



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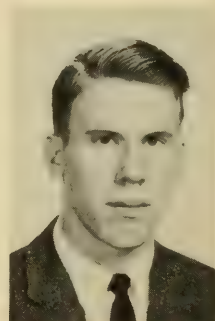
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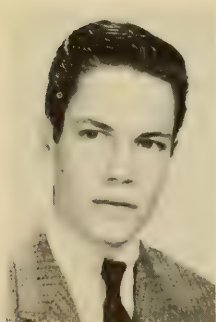
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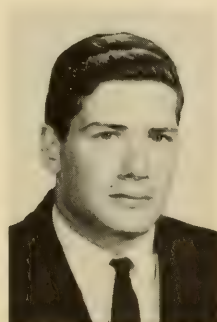
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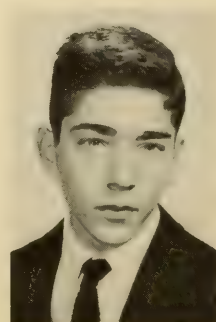
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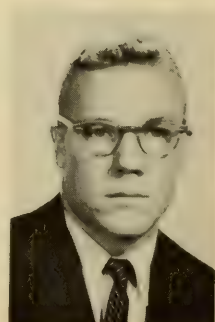
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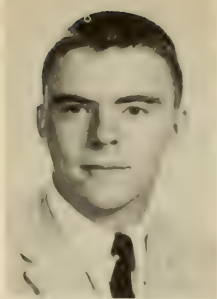


T.M. SCHWEITZER



E.P. SCHWENTKER

SEE SUPPLEMENT



S.J.SCHAFER



W.B.SHERMER

SEE SUPPLEMENT

A.SIEGEL

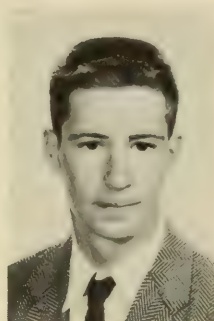
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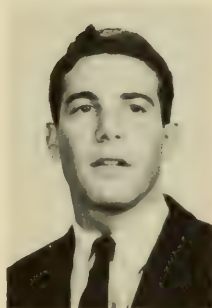
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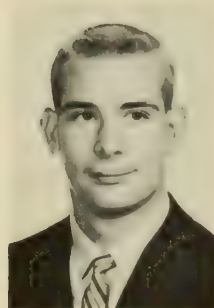
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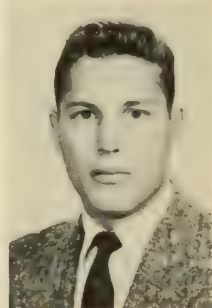
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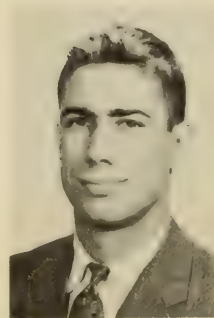
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J.H.TAYLOR



C.A.THRALL



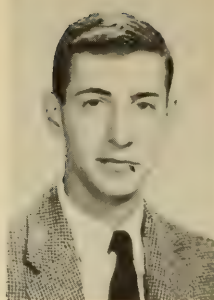
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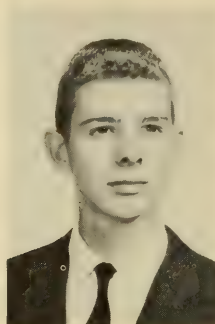
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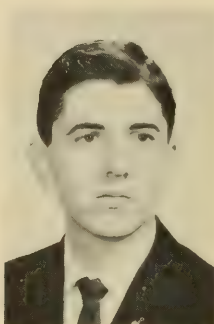
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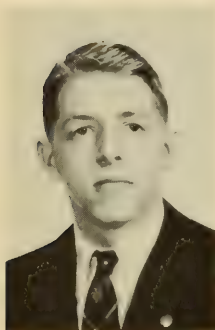
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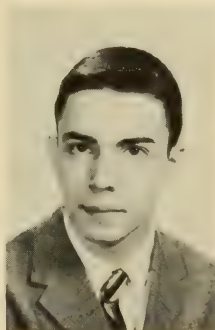
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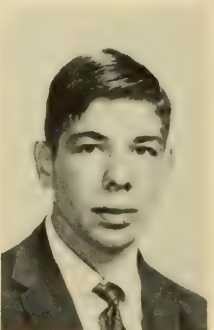
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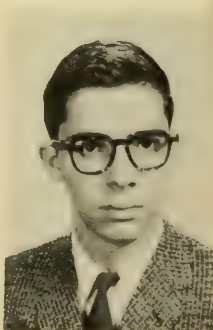
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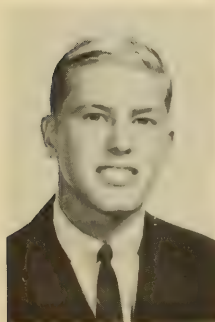
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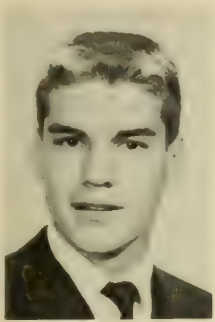


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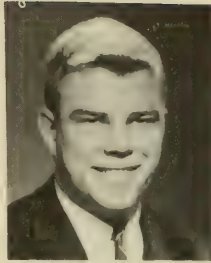


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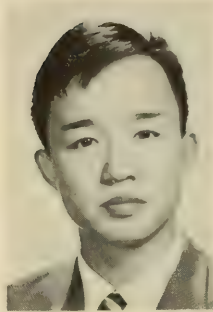
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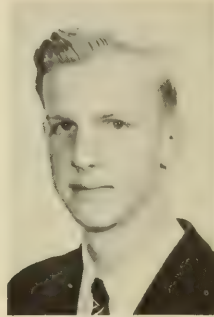
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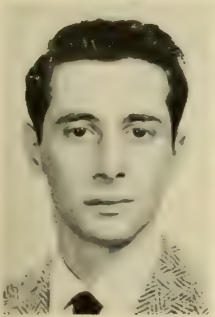
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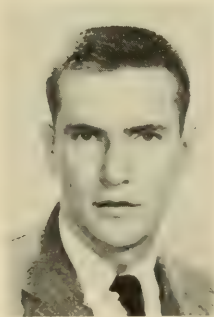
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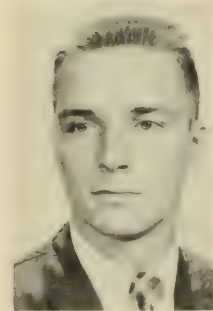
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M.S. ARONOFF



D.A. ATCHISON



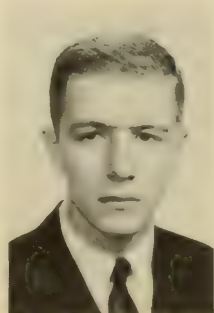
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M.F. BALDWIN



T.J. BARLOW



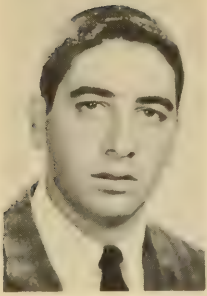
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J.F. BLAIR



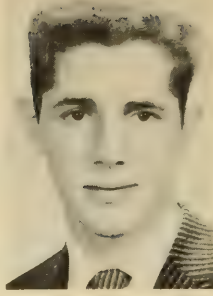
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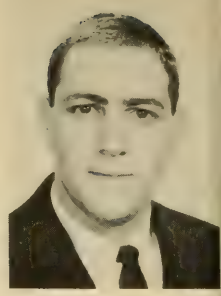
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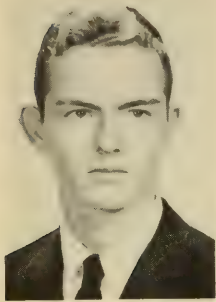
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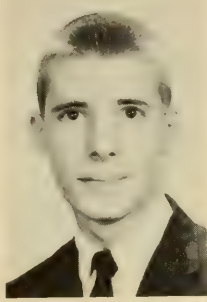
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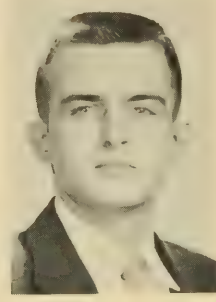
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C.L.COCKE



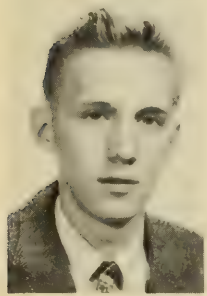
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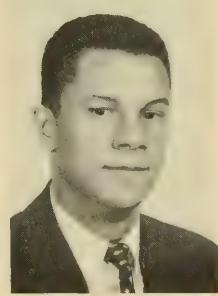
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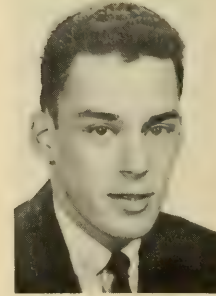
R.N.DE LUCA



F.M.DE NIE



W.J.DENT



C.O.DE RIS

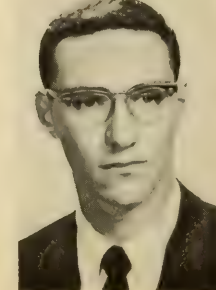


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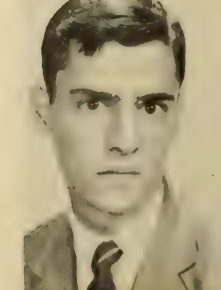
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G.R.FAULHABER

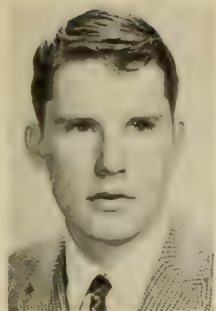


S.W.FISHER



J.FLACCUS

A.W.FOWLER



R. B. FOWLER



J.D. FOX



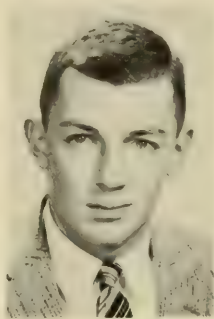
R. FREEDBERG



G.W. FREEMAN



W.B. FREILICH



D.L. GAETJENS



V.A. GAGE



P.K. GARRETT

SEE SUPPLEMENT



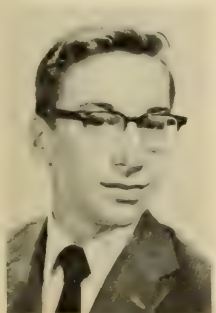
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M.J. HARTMAN



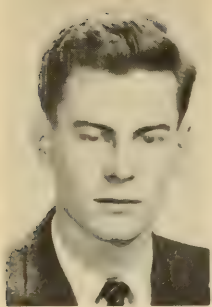
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H.M. HELSINGER



D. HEMMINGWAY



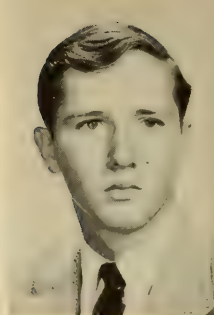
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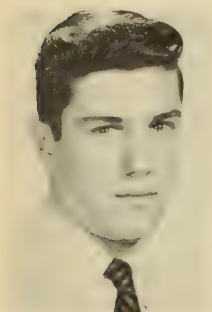
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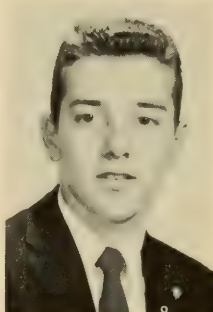
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H.D. JENKINS



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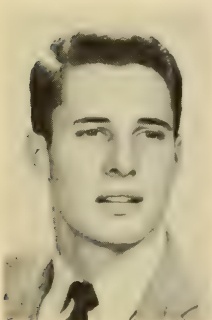
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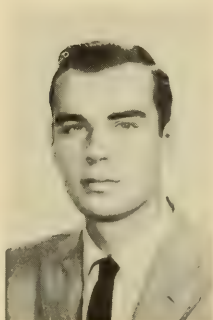
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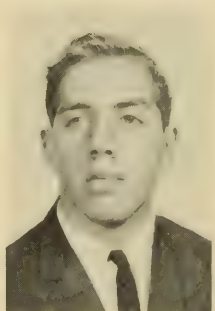
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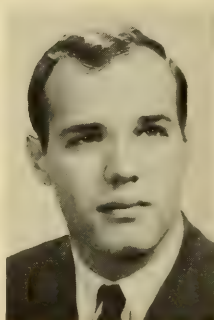
P.O. LANE



L.K. LARSON



B.A. LEDERBERG



TIM LEWIS



R.W. LINVILLE



S.J. LIPPARD



R.W. LYNN

SEE SUPPLEMEN

J.MC BRIDE



K.A. MAC LEOD



P.K. MEARS



J.I. MEYER



J. MIDDLETON



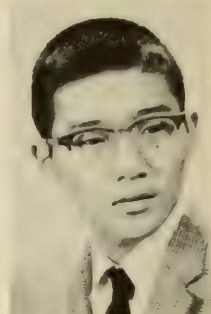
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K.S. MORGAN



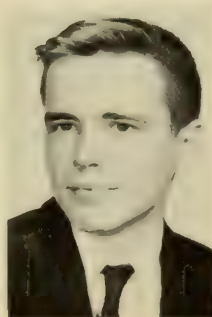
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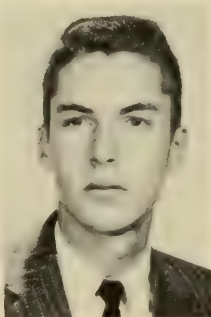
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E.A. NATELSON



R.B. PARKER



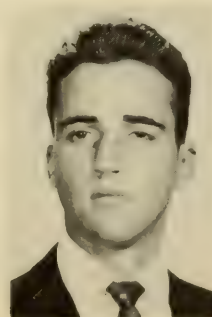
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R.D. PENN



A.R. PETRASKE



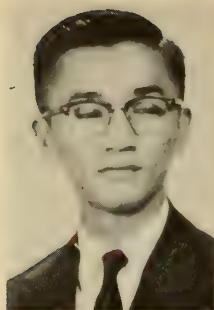
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M. RODELL



F.H. ROEEVER



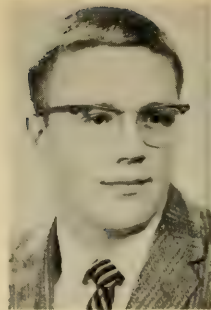
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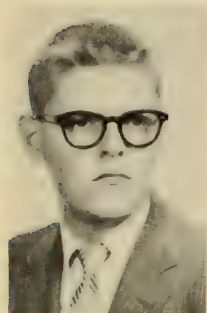
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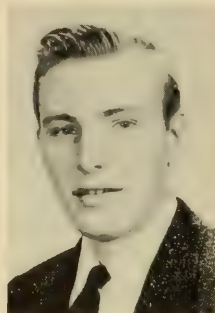
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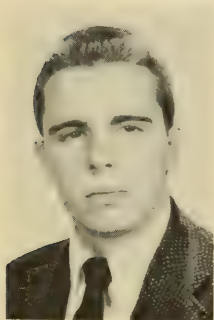
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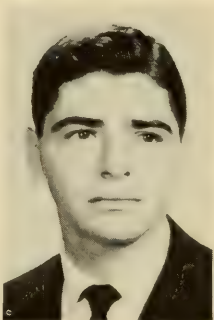
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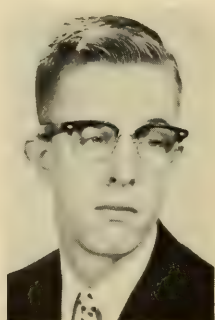
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M.W.STANLEY



W.F.STEIGMAN



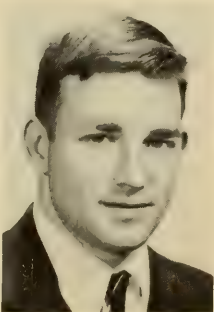
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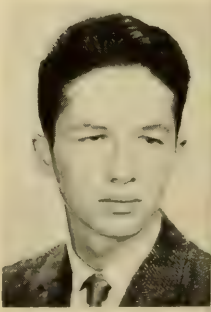
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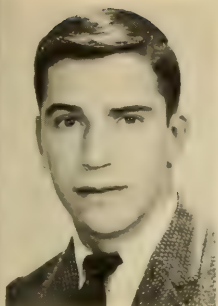
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R.TANNENBAUM



D.S.TURNER



L.A. WADDELL



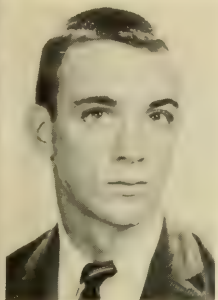
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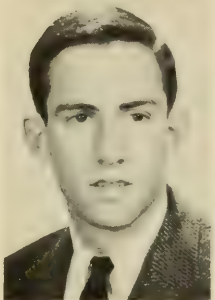
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C.B. WATKINS



J.G. WEYAND



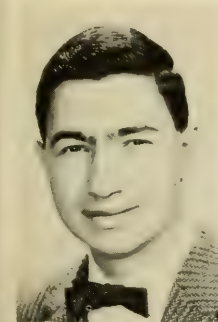
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J.S. WILLIAMS

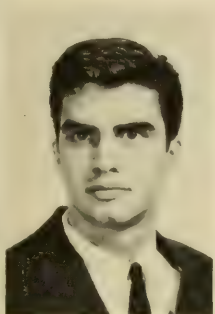


L.H. YEARLEY



E.J. ZOBIAN

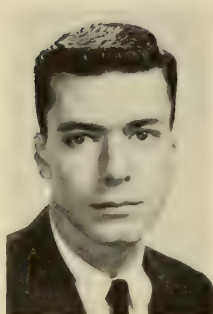
Supplement



D. CRAWFORD



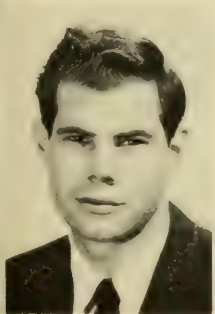
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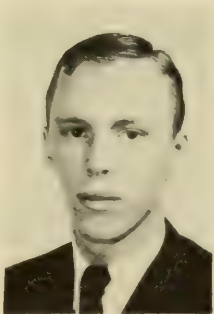
G. R. FAULHABER



R. GOULD



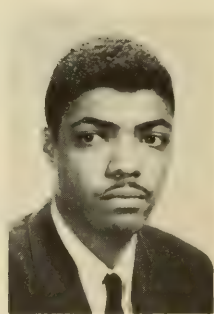
H. S. MONKEMEYER



D. R. MOORE

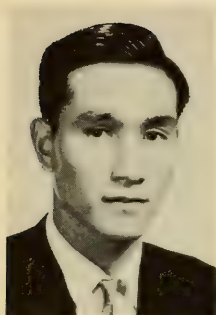


S. J. SHAFER



P. F. SINCLAIR

Special Graduate and Transfer Students



S. MARUYAMA



H. STRUTZKE

PICTURE NOT
AVAILABLE

PICTURE NOT
AVAILABLE

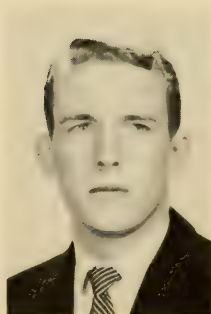
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HYUN YOON

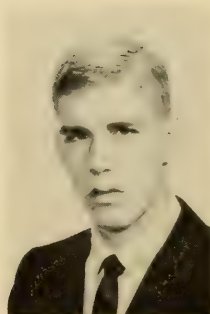
Returnees Not Yet Assigned To Classes



D. D. KNIGHT



J. MAC BRIDE



D. C. PORTEOUS

HAVERFORD COLLEGE

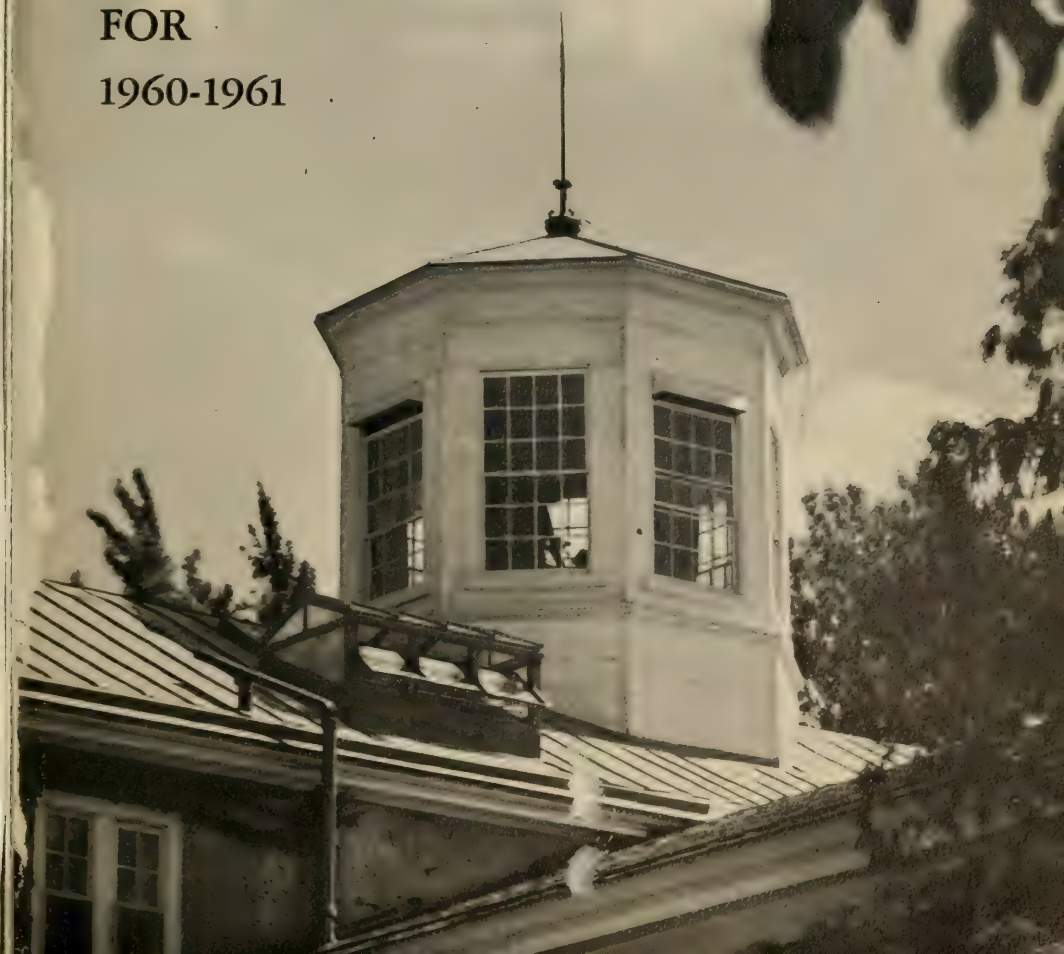
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PRESIDENT AND TREASURER REPORTS FOR 1960-1961



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PRESIDENT AND TREASURER REPORTS
FOR
1960-1961



HAVERFORD COLLEGE
HAVERFORD, PA.

REPORT OF THE PRESIDENT

*presented at the
Annual Meeting of the Corporation
of Haverford College*

October 17, 1961

SIGNIFICANT EVENTS

I N my Annual Report a year ago I emphasized two parallel operations of the College as being particularly characteristic for 1959-60. They were the regular academic program which progressed smoothly and the planning for the future throughout the entire year. The best way to describe the year covered by this Report is to say that we have been increasingly absorbed both with the current problems of the College and with new ones created by our Development and Building Program. We are deeply grateful to all of you who have become personally involved in assisting us in our Development Program and who have contributed to make it successful.

All of this increased activity has produced a valuable by-product. The members of this Corporation are undoubtedly far more cognizant at this time than at any of the other four times I have reported to you, of the present state of the College and of what is immediately ahead of us. Consequently, parts of my Report may seem repetitious to many but will present for the record what appear to be the most significant recent developments.

In the first place, we have just concluded the first year of a new type of cooperative effort of the three colleges of Swarthmore, Bryn Mawr and Haverford. I refer to the special Asian Program sponsored by the Ford Foundation whose basic purpose is to increase interest on the undergraduate level in non-Western studies, an objective dear to my heart.

During the past year, Professor Earl H. Pritchard of the University of Chicago was Director of the program on China. With his expert assistance the library holdings in books on Eastern and South Asia in all three colleges were greatly strengthened. For our part, we acquired over three hundred volumes on China and Japan which also included a special gift of books on Japanese culture from the Japanese Government in Commemoration of the Centennial of the first Japanese-American Treaty of Amity and Commerce. Furthermore, interest in China was stimulated among the undergraduates at Bryn Mawr and Haverford through a special course on Chinese Cultural History offered by Professor Pritchard.

But the most significant aspect of this Asian Program was the faculty seminar directed by Professor Pritchard and regularly attended by thirteen faculty members from the three colleges (Swarthmore 6, Bryn Mawr 4, Haverford 3) with interests ranging from philosophy to history, political science and economics. The faculty participants, having been granted one-third time leave, each presented to the seminar a paper on a subject on China within his discipline. As Professor Pritchard reported, the seminar provided an opportunity for its members to revive old interests, stimulated new ones and introduced them to new literature. As a result, those who attended the seminar have already introduced new material relative to China into the regular courses they are teaching. This program has enriched all three campuses and we look forward to a similar program next year on India.

An exciting and bold adventure for liberal arts colleges has been the joint purchase by Bryn Mawr and Haverford of an electronic computer, an IBM 1620. It will be particularly helpful to the Science and Social Divisions of the two colleges. The primary purpose of this machine will be for use of undergraduate students to learn how to "program" problems which make the machine do the calculations necessary to solve the problem. It will also be available for programming by individual professors to assist them in their own research. Although it will be housed in a new computer center now being prepared in Hilles Laboratory, as the machine is owned jointly with Bryn Mawr, the two colleges will be given equal time for the use of the computer and its supplementary calculator, card puncher and other machines. The College greatly appreciates the willingness of IBM to

sell us this machine at a special educational rebate and the substantial financial assistance from the National Science Foundation to make it possible to establish this computer center. At the moment, a joint Committee under the Chairmanship of Professor Louis Green, President McBride and myself are working out the policies and procedures for the use of the machine. We anticipate delivery of the computer and its supplementary equipment on November 6, 1961. This joint endeavor is one of the most outstanding examples of what can be accomplished through close inter-college cooperation. We believe it will serve an equally significant purpose as a pioneer step as to how liberal arts colleges can learn to master machines in the electronic age and make them their servants rather than let man become the victim of the machine.

Another outstanding event of the past year was the Commencement Address of Dr. Arnold J. Toynbee. Those of you who attended the exercises will recall his emphasizing that the two most significant changes in the next fifty years are likely to be the demands of the great non-western majority of the world for a fairer share of mankind's total economic production and the greater rewards and excitement which will come from those in public service. These predictions of Dr. Toynbee's were a challenge both to the new graduates who will be faced with trying to solve the problems created by these changes and to the College to be alert to offer the instruction which will give its graduates the best possible preparation to confront and conquer these and other changes. Naturally, we are pleased that the members of the graduating class received proportionately more of the coveted Woodrow Wilson Fellowships for graduate study for future teachers, than those of any other graduating class in the country.

Finally, the Administrative officers of the College were unusually active during the past twelve months. Due to his success as a Director of Admissions and his long experience both as a member and President of the College Entrance Examination Board, Vice-President Archibald MacIntosh was invited by Dr. David D. Henry, co-ordinator of the African Scholarship Program of the American Universities, to accompany him to Africa to set up the policies and to assist in the selection of 200 African students coming to American colleges and universities. This mission was successfully accomplished and Haverford is proud,

for the second year, to have among its Freshman Class African students under this program and to be in the forefront of one of the most significant programs of international education.

Finally, Vice-President Walter C. Baker and myself spent much of our time visiting with alumni groups across the length and breadth of the country explaining the aims and purposes of our Development Program. We were also ably assisted by Professor Teaf on special assignment for such visits. Aside from the very gratifying material results of this program, to which I will refer shortly, we all profited from the opportunity to get to know more of our alumni, especially those outside of the eastern seaboard. At the same time, it made a larger number of our body of approximately 3700 graduates more familiar with our accomplishments and aims.

THE FACULTY

In the present era, rapidly increasing undergraduate enrollments, greater interest in higher education and the relatively unfavorable economic position of the College teacher compared with many other vocations have combined to create one of the most perplexing and vital problems facing a College such as Haverford. This is the problem of securing and keeping a superior faculty. The problem is perplexing because of the time and effort required to find adequate replacements for those on leave or resigning; it is vital because the strength and hopes of an institution of higher learning, and especially of a liberal arts college, rests on the ability of its faculty. These are the men and women who mold the minds of those in their charge, who devise and implement both the content of each course and the curriculum as a whole. As time passes and I become even better acquainted with the quality of the instruction at the College, I am more convinced than ever that we should be justly proud of our faculty.

While I believe we have been most fortunate in the replacements we have found for those who left the College last year, we suffered a severe loss with the sudden and untimely death of Professor Russell R. Williams, Jr., Chairman of the Department of Chemistry. He was an outstanding scholar and teacher, a colleague of noble character, loyal and devoted to his students and the College as a whole and unstinting

in the time and energy he willingly devoted to such things as planning for the new Chemistry-Mathematics-Physics Building. We are deeply thankful, however, that we were fortunate to have him as an esteemed member of the College community for the past five years.

I must also record the death of Professor Legh W. Reid, Emeritus Professor of Mathematics, on April 3, 1961. Familiarly known as F(X) to generations of Haverford students who were required to take his course in Freshman Mathematics during the thirty-four years he taught, he generously established by bequest The F(X) Mathematics Scholarship. Though inactive for the last few years, he will be missed by those of us he taught.

We were also sorry to lose through resignation Professor Aaron Lemonick, former Chairman of the Physics Department. We consider ourselves extremely fortunate in having obtained as his replacement Professor William Davidon, of the Argonne National Laboratory and University of Chicago. Professor Gerhard Spiegler, also of Chicago, is the new Chairman of the Department of Religion.

Two other significant faculty appointments for the current year are in the Psychology Department. Recognizing that a college of the stature of Haverford should have a Psychology Department with three faculty members, each of whom should be an authority in one of the basic areas of cognition or learning, experimental psychology and social psychology, the Board authorized the expansion of the department from two to three members. Professor George A. Heise, after a few years experience in industry, is returning to college teaching and will concentrate on experimental psychology. Professor Sidney Perloe, formerly at Yale and trained at the University of Michigan, is primarily a social psychologist. These men, together with Professor Douglas Heath, the Chairman, will give this increasingly important area of study new stability and strength.

The other two regular new appointments are Professor Dale Husemoller, a theoretical mathematician who was at Penn State last year and is a Harvard Ph.D., and Professor English Showalter, in French, who comes from us after a year at the Sorbonne.

I am also pleased to report that seven of the full Professors and five Associate Professors who were on leave of absence last year, either

on sabbatic leave or leave without pay (John Ashmead, Howard Comfort, Thomas E. Drake, Douglas Heath, John A. Lester, Jr., Ariel Loewy, Cletus O. Oakley, Francis Parker, Francis J. Quinn, Edgar Rose, Herman M. Somers and Howard M. Teaf) have returned to the campus. We welcome their return and the contributions they will make after their enriching experiences. In contrast to this total of twelve faculty members absent for one or both semesters last year, only three professors will be away this year for the entire year and three for two-thirds time or less. (James O. Brooks, A. Paul Hare, Wallace T. MacCaffrey, Harry W. Pfund, Ira De A. Reid, and Douglas V. Steere).

It is also encouraging to report that there has been an increase over last year by three in the number of faculty members in the two highest ranks indicating the greater recognition given them by the College for their past and present achievements. Furthermore, partly because of a fewer number of persons on leave and for other reasons, the total number of regular faculty members has been reduced from sixty-one last year to fifty-eight. I mention this as a salutary sign because keeping proliferation in courses and personnel to a minimum, providing all of the essential courses are adequately staffed, is one way that the College is able to continue to increase faculty salaries and hence maintain a favorable competitive position with comparable institutions. In the recent survey of salaries of the Association of American University Professors, Haverford rated sixth nationally in terms of full-time faculty per student and was among the top ten on the basis of average compensation. Only by maintaining and improving the salary rating will Haverford College be able to retain a high calibre, dedicated faculty.

Finally, I should like to draw your attention to some of the recent publications of the faculty in addition to those listed at the conclusion of this Report. Herman and Anne Somers, after four years of work have recently completed their study under the sponsorship of the Brookings Institution on the complexities of the various types of medical care in a book entitled *Doctors, Patients and Health Insurance*. This volume has attracted nationwide attention. Dean William E. Cadbury is a co-author of *Preparation for Medical Education: A Restudy*, the results of a second survey of the courses of study of over a hundred colleges visited and analyzed five years earlier. The purpose

of this study is to establish pre-medical education on as broad a base as possible so that the future doctor will be prepared to become a valuable member of the community in which he lives as well as a qualified physician. Philip Bell, Associate Professor of Economics, is co-author of a new book, entitled *Theory and Measurement of Business Income*, which attempts to develop the theoretical basis of income. It is described by the London *Economist* as the most wise and original contribution to accounting theory in a quarter of a century. Another recent book is John Ashmead's very favorably reviewed novel, *The Mountain and the Feather*.

THE STUDENT BODY

College opened this fall with a total enrollment of 451 undergraduates, 6 special and graduate students coming from 33 states and 11 foreign countries. The notable reduction a year ago compared with 1958-59, of the number of students dropping out of college for academic and other reasons has continued throughout the last academic year. Two years ago 24 dropped out, the next year 9 and this year 10 from a slightly larger student body. Whether fewer changes in the composition of the student body or whether other less apparent factors are at work, student morale throughout the year remained high and everyone went about the business of obtaining a college education with a greater seriousness of purpose and enthusiasm than heretofore.

The application list for the present freshman class numbered 480. Although this number was less than last year, the overall quality of the applicants was higher. This decline in number of applications was experienced at most of the quality colleges. It is the result of better counseling in the schools which eliminates unrealistic applications and is also partly due to the fear of the high school seniors about the difficulty of admission to a competitive college. Undoubtedly the reputation of the college both helps and hinders us in attracting candidates.

The College continues to compete more and more with the quality colleges for students. Forty per cent of our candidates applied to Harvard, Yale or Princeton. Sixty-six per cent of them applied to these three universities or to Amherst, Wesleyan, Williams or Swarthmore.

The present Freshman Class of 119 is drawn from 103 different schools, 62% of the class coming from public schools. Particularly note-

worthy are the number of students who have had experience with college work while in school through National Science Foundation programs at summer schools at universities or other special programs for talented students. On the basis of their performance in the Advanced Placement Examinations, twenty-two members of the class received college credit upon entering Haverford for work already accomplished.

We are especially pleased that 17 of the class are members of the Society of Friends and that 28 are sons or brothers of Alumni or present students. In all these cases, this represents an increase over the number in recent years. Friends total about 11% of the present student body. On the basis of past experience, we know that the Admissions Office, under the remarkable leadership of Archibald MacIntosh and with the able assistance of William Ambler, has again selected a group of young men of whom we can be proud. With the pressures mounting on all sides for admission to college, we are extremely fortunate that this problem is in such competent hands.

PHYSICAL CHANGES

During the summer, in addition to providing facilities for an unusually large number of conferences of religious organizations, almost more renovations and improvements of college buildings and property were undertaken than during all of the past four summers. In the first place, after President William Wistar Comfort's house became available to the College in the late spring, careful study revealed that it could be renovated to make an ideal center for our Music Department. Work was completed by the opening of the fall semester. The Henry S. Drinker Music Center, as it is to be called, contains three fresh and bright class rooms, separate library rooms for reference books and for sheet music, three offices for faculty members and four music practice rooms lined with acoustic tiles. This is a welcome and exciting addition to our educational facilities.

As a result of this new building, new recreational and social-room space for the students became available in the Union. A new lounge was furnished on the north side of the ground floor. The auditorium on the second floor was completely refurbished into a play room or social hall. Already the Union is providing a healthy atmosphere for

student relaxation and recreation and the students are rapidly acquiring a feeling that this is once again their own building as it should be.

In addition to the construction of the Computer Center in Hilles to which I have already referred, two other important and urgent improvements have been made. The first was the laying of a new brick walk in front of Founders Hall. Our most cherished building now has an approach worthy of its simple and dignified style. Those using the walk in wet weather and especially during the spring thaw will know without doubt that they are on bricks rather than in a quagmire. Another significant renovation is that of the old Chemistry Building. New fire doors, protective walls and other devices are already installed. The inside work for a new fire tower on the south end is completed. All of these changes are in accordance with plans approved by Harrisburg and in line with the future long-term use of the building. Finally, three new handsome, comfortable and spacious apartments for faculty members have been built in the home left to the College by Miss Gladys Griscom. Probably no one realizes better than I do how large a debt of gratitude the College owes to its Business Manager, Aldo Caselli, who skillfully and untiringly planned these operations so that they would be completed on time.

THE STRAWBRIDGE OBSERVATORY

The Strawbridge Observatory continues to serve its primary purpose as a focus for astronomical activity on the campus. In addition, the practice of many years of having public open nights has been maintained. There were seven such occasions during the year and 198 visitors took advantage of these opportunities to look through the telescopes.

A major effort toward the water-proofing of the building was begun over the summer. The roof was again tarred and cindered and the side walls were waxed. A trench was also dug around the building to allow for repointing and for covering the basement walls with two coats of mastic separated by plastic sheeting. It is expected that when this latter work is completed, the basement of the Observatory will be far drier and more usable as a workshop and laboratory than it has been for many years.

THE COLLEGE OF THE FUTURE

At the beginning of this report I referred to the bifurcated aspect of our work at the College during the past year. I have dwelt at length on the normal activities of college life. In reality, an inordinate number of man-hours have been spent by the officers of the College, by several members of the Faculty and by members of the Board of Managers in perfecting plans for the new Chemistry-Mathematics-Physics Building and the new dormitory on the one hand and in planning, launching and carrying through the various aspects of the Development Program. This looking towards the future, to which I referred at some length a year ago, has given new life and purpose to everyone connected with the College.

At times, progress on specific plans for the new Chemistry-Mathematics-Physics Building seemed excruciatingly slow. Finally the various groups involved agreed upon the specific assignment of space and its rearrangement within a prescribed total overall area. The Board of Managers agreed in March that the College should proceed to construct the building at all possible speed. Preliminary plans were approved in May and final specifications are expected to be completed in November. You are already familiar from the articles in *Haverford Horizons* with its general plans. The more we work with perfecting these, the more satisfied we are that the building which should be nearing completion at the time of my next Report will be one of great usefulness and of which we will be justly proud. Having completed the planning for this building, we are now directing our attention to the new dormitory.

I also reported in considerable detail last October on our plans to open a three-year capital fund drive to meet the immediate needs of the College estimated at \$3,600,000. You will recall that the science building was estimated to cost approximately \$2,000,000. The dormitory, Library, faculty salaries, student scholarship and loan funds and renovations of old buildings accounted for another \$1,600,000, the amount set as the goal for the Alumni and friends of the College. Funds will also be needed to remodel Sharpless but fortunately we already have received a Rockefeller Foundation grant which will defray a large portion of them and hopefully another Foundation may take care of much of the remainder. Under the able leadership of Dr. Jonathan E.

Rhoads as Chairman of the Development Campaign and with the constant guidance and untiring efforts of Walter C. Baker and Charles Perry at the College, we are approaching the end of the first year of this drive.

Among the most satisfying experience in the past year of Walter Baker, Professor Howard Teaf and myself, who divided among us the various local alumni groups, have been our meetings with Haverfordians across the country on behalf of the Development Program. It was a rare privilege to meet with so many Alumni, and heartening to learn at first hand of their abiding interest in Haverford. I speak for the entire College when I express my appreciation for all those who have supported it in such full measure by their subscriptions and by their service in the campaign organization. Up to the present, subscriptions have totalled \$1,152,000, almost as much as the amount raised in the entire three-year campaign begun in 1949. This most gratifying result could not have been achieved without the joint effort of everyone and especially that of the four hundred volunteer workers with Jonathan Rhoads and his co-chairman Richard Heilman.

Specific arrangements are being made to see the remaining potential subscribers to Haverford's Development Program. I have complete confidence that the \$450,000 needed to reach our \$1,600,000 goal for individual gifts will soon be on the record. In the meantime, on the basis of this unprecedented support from our Alumni, we are working out specific plans for approaches to corporations and foundations who we are confident share Haverford's "Concern for Quality" which will produce the remaining subscriptions needed to complete our present goal of \$3,600,000.

Much of this report has been limited to physical or material changes, both those completed and those contemplated, just as much of the time of many of us has been devoted to these tasks. Does this mean that we have neglected the educational and moral objectives of the College at the expense of our absorption with problems of the physical plant? I should like to answer this perfectly valid question in two ways. In the first place, to put the matter quite bluntly, for an institution of its stature, Haverford College has grossly neglected the modernization of its educational facilities. I can graphically illustrate this

fact by pointing out that except for important enlargements and improvements of the Library, the addition last month of the Henry S. Drinker Music Center to our educational buildings is the first such move in thirty-two years when the engineering department moved into the Hilles Laboratory of Applied Science. Our second newest laboratory and educational building is Sharpless Hall built forty-four years ago! Is it any wonder that we are impatient to have the new building started? The past has more than caught up with us so we at the College have had no choice but to concentrate on a building program. By the same token, I have recently concluded that we may well discover that Foundations and other benefactors of the College may expect us to use some of our capital funds, which we accumulated during these years of limited plant expansion, for our present buildings before they will help us in the future. I hope that such an eventuality does not arise but we must be prepared for it. At the same time we must be ready to meet the other financial needs which our present Development program is designed to meet.

In the second place, we have not by any means neglected to analyze and evaluate the educational program of the College during the past year. The Curriculum Committee has made a searching analysis of many of the courses to determine whether they have a proper place in the educational program. More recently a new committee, composed largely of the leading members of the Faculty, has begun an intensive analysis of the aims of the educational program. Starting from the central contention that the primary purpose of the College is to improve knowledge and understanding in the various disciplines and to create the ability to discover and use the evidence necessary for wise decisions, the Committee is just beginning to analyze the outstanding features of the College, its weak points and how they can be rectified, with a view to improving the central core of any college, its teaching. At the same time, general and specific programs are being suggested and will be analyzed. They range from such diversified problems as the effect of an adequate graduate program on the calibre of the faculty and students and how a larger College would improve the faculty and the curriculum. I suspect you may well hear more in the future about this last point. It is hoped the result of this survey will indicate what is considered to be the ideal college of the future. While all of this ideal

may not be obtainable in the immediate future, it will at least give us a goal for the future.

In the earlier part of the Report, I intimated that much of our time and effort was devoted to planning for the future. This is as it should be, for the moment the College becomes content with things just as they are without knowing why we believe this to be true, then it will have lost its intellectual vitality and nothing exciting or constructive will happen when scholars and students meet. On the other hand, so long as the entire College community approaches the future with an inquisitive spirit, the vitality of the College will be contagious and affect all who come in contact with it. Such is the task to which our lives are devoted.

HUGH BORTON

STATISTICS FOR REPORT OF THE PRESIDENT

1960-1961

ENROLLMENT

Fall Semester, 1957	455
Spring Semester, 1958	458
Fall Semester, 1958	458
Spring Semester, 1959	434
Fall Semester, 1959	452
Spring Semester, 1960	443
Fall Semester, 1960	472
Spring Semester, 1961	462
Fall Semester, 1961	457
<i>Undergraduate Students</i>	451
<i>Graduate and Special Students</i>	6

COMPOSITION OF THE STUDENT BODY,

FALL SEMESTER, 1961

The student body represents 33 states. The following foreign countries are represented: Canada, France, Germany, Hong Kong, Hungary, Italy, Japan, Kenya, Korea, Nigeria and Tanganyika.

Students who are members of the Society of Friends number 48, or 10% of the total enrollment, and 57 students are sons of Alumni, or 12% of the total enrollment.

REGISTRATION IN ACADEMIC COURSES

Department	Registration (Fall & Spring Semesters)									
	Fall, 1961	60-61	59-60	58-59	57-58	56-57	55-56	54-55	53-54	
Astronomy	73	105	85	74	56	63	49	76	76	
Biblical Lit.										
(Religion)	—	92	103	132	78	105	86	71	53	
Biology	95	205	219	266	234	318	318	185	201	

REGISTRATION IN ACADEMIC COURSES (continued)

Department *Registration (Fall & Spring Semesters)*
 Fall, 1961 60-61 59-60 58-59 57-58 56-57 55-56 54-55 53-54

Chemistry	120	234	289	268	279	366	382	410	422
Classics	59	141	108						
									(Greek and Latin)
Economics	142	280	255	271	269	228	227	243	230
Engineering	25	58	46	43	64	46	57	46	63
English	308	701	609	650	700	605	637	673	660
French	112	197	162	220	245	251	253	225	208
Geography								13	19
German	120	268	217	246	206	209	166	180	218
Greek									
(now Classics) .				39	27	27	31	31	22
History	218	260	300	283	269	237	184	209	218
History of Art . .	54	71	65	50	56	50	70	69	73
Latin									
(now Classics) .				28	44	74	34	38	25
Mathematics . . .	184	344	345	333	330	333	307	284	316
Music	55	138	95	90	64	39	31	45	33
Philosophy	165	431	394	351	306	317	334	348	390
Physics	80	145	197	206	192	138	188	156	125
Political Science	149	285	302	248	297	231	290	274	260
Psychology	47	164	160	149	286	127	169	175	236
Religion	52								
									(formerly Biblical Literature Dept.)
Russian	22	52	72	48	16	11	15	12	23
Sociology	119	210	205	243	172	142	129	114	139
Spanish	43	78	84	70	85	105	98	95	111

General Courses

E. Asian Studies (now History 37-38)					60				
Humanities	60	105	110	135	139	201	165	181	97
Physical Science		41	33	20	30	—	—	58	56
Social Science						249	250	260	279

HAVERFORD STUDENTS AT BRYN MAWR

Archaeology	1
Biology	1
Economics	3
Education	1
Geology	3
German	1
Greek	2
History	5
History of Art	5
Italian	1
Music	2
Philosophy	1
Political Science	2
Psychology	5
Russian	11
Sociology and Anthropology	5
Spanish	1

UNIVERSITY OF PENNSYLVANIA

Oriental Studies	1
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DEGREES GRANTED, JUNE 9, 1961

B.A.	102
B.S.	14

COLLEGE VISITORS

1960-61

Collection (Weekly Assembly) Speakers

Alard String Quartet

Walter L. "Red" Barber, sports broadcaster

Victor L. Butterfield, President, Wesleyan University

*Ross Lee Finney, professor of musical composition, University of Michigan

James W. Fowle, associate professor of history of art, Bryn Mawr College

Jan-Albert Goris, commissioner of information, Belgian Government Information Center, United States of America

A. J. Hayes, international president, International Association of Machinists

Walt Kelly, cartoonist

Arthur Larson, director, World Rule of Law Center, Duke University; author

*Richard L. Masland, director, National Institute of Neurological Disease and Blindness

Mungai Mbayah, former labor inspector, Kenya

Ashley Montagu, anthropologist; author

Justin O'Brien, chairman, Romance Languages Department, Columbia University

Joseph Papp, director, Shakespeare Festival, New York City

Colin S. Pittendrigh, professor of biology, Princeton University

Hedley H. Rhys, professor of Fine Arts, Swarthmore College

John D. Rockefeller, 4th

Justus Rosenberg, associate professor of German and Russian, Swarthmore College

Eliot Stellar, professor, School of Medicine, University of Pennsylvania

Arnold Toynbee, British historian

Collection Speakers, from the College

Hugh Borton, president

Jay H. Cellens, assistant professor of English

Paul J. Mishkin, visiting professor of political science

L. Arnold Post, emeritus professor of Greek

Departmental and General Visitors

- Giuseppe Anedda Ensemble
- *Kenneth Atkins, professor of physics, University of Pennsylvania
 - Mohsen Azizi, professor, University of Teheran, Iran
 - Samuel Beer, professor of government, Harvard University
 - Dave Bellinger, editor, *Liberation*
 - Douglass Berggren, assistant professor of philosophy, Yale University
 - William N. Chambers, M.D., Hitchcock Clinic, Hanover, N. H.; Dartmouth Medical School
 - William C. Davidon, Argonne National Laboratory, Chicago, Ill.
 - Robert De Haan, staff member, Carnegie Institution of Washington, Department of Embryology, Baltimore, Md.
 - *Martin Deutsch, professor of physics, Massachusetts Institute of Technology
 - *Carl Djerassi, professor of chemistry, Stanford University
 - Danillo Dolci, Italian humanitarian
 - Filippo Donini, director, Italian Cultural Institute of New York
 - Mikel Dufrenne, professor of philosophy, Universite de Touro
 - *Mac V. Edds, Jr., professor of biology, Brown University
 - Wilhelm Emrich, professor of German literature, Free University, West Berlin
 - Alan Garen, associate professor of biology, University of Pennsylvania
 - *D. V. Glass, chairman, board of studies in sociology, University of London
 - H. H. Goldstine, Institute for Advanced Study, Princeton
 - *Philip Hauser, professor of sociology, University of Chicago
 - Louis Henkin, professor of law, University of Pennsylvania
 - Samuel P. Huntington, associate director, Institute of War and Peace Studies, Columbia University
 - Edward B. Irving, Jr., associate professor of English, University of Pennsylvania
 - *Herbert H. Jasper, professor of psychiatry and psychology, McGill University
 - *George E. Kimball, science advisor, Arthur D. Little, Inc.
 - Max Lauffer, dean, Division of Natural Sciences and professor of biophysics, University of Pittsburgh
 - *T. D. Lee, Institute for Advanced Study, Princeton
 - Gabriel Lester, professor and chairman, biology department, Reed College
 - Herbert S. Levine, professor of economics, University of Pennsylvania
 - Karl Lickfeld, Mulheim (Ruhr) Icten, Klängenburghstrasse 30, West Germany
 - *Donald B. Lindsley, professor of psychology, University of California at Los Angeles
 - *Frank Lorimer, professor of sociology and demography, American University

- Richard L. Masland, director, National Institute of Neurological Disease and Blindness
- Eugene J. McCarthy, U. S. Senator
- Philip Morrison, professor of physics, Cornell University
- Marston Morse, Institute for Advanced Study, Princeton
- O. Hobart Mower, research professor of psychology, University of Illinois
- Gardner Murphy, director of research, The Menninger Foundation
- George Mylonas, chairman, department of art and archeology, Washington University
- Thomas Noon, information officer, International Bank for Reconstruction and Development, Washington, D. C.
- Frank Notestein, president of the Population Council
- James Olds, professor of psychology, University of Michigan
- Harry Peck, biochemist, Oak Ridge National Laboratory, Oak Ridge, Tenn.
- Karl Pribram, associate professor of psychiatry and psychology, Stanford University
- Howard A. Schneiderman, professor of zoology, Cornell University
- Walter Selove, associate professor of physics, University of Pennsylvania
- Jerome Spingarn, National Planning Association
- Oliver Tambo, deputy general secretary, African National Congress, Johannesburg, Union of South Africa
- John Tate, professor of mathematics, Harvard University
- Paul Tillich, professor of religion, Harvard University
- John Toohey, research fellow, department of biology, University of California at La Jolla
- Charles H. Townes, professor of physics, Columbia University
- Richard B. Sewall, professor of English, Yale University
- Andre Weil, Institute for Advanced Study, Princeton
- Cedric H. Whitman, chairman, classics department, Harvard University
- Jonathan Williams, poet, publisher of "The New Poets"
- Philips Visitor
- Phi Beta Kappa Visiting Scholar

MORRIS INFIRMARY

Report for Year 1960-61

House Patients

Upper Respiratory Infections	17
Gastro-Intestinal Infections	22
Surgical	5
Miscellaneous	8
<hr/>	
Total	52

Number of days: 114

Dispensary Patients

Upper Respiratory Infections	1233
Gastro-Intestinal Infections	282
Miscellaneous	1612
Allergy	162
Vaccines	80
<hr/>	
Total	3369
Influenza Vaccines Given	463
<hr/>	
Total	3832

Specialties Included in Above Report

Fractures	15
Chipped Teeth	6

Surgery

Appendectomy	1
Orthopedic	2
Suture cases	9
Tendon repair	2
<hr/>	
Total	35

No Communicable Diseases Reported.

WILLIAM W. LANDER, M.D.

PUBLICATION OF THE ACTIVITIES OF THE FACULTY

1960-61

ASHMEAD, JOHN, JR.

Books: The Mountain and the Feather, Houghton Mifflin, 1961.

Parts of Books: "These were my Japanese Students," Griggs, Bludworth, Llewellyn, *Basic Writer and Reader 1961*, American Book Co., 1961.

Articles: "Report on Japan," Atlantic Monthly, October, 1960, Vol. 206, No. 4, pp. 11-18.

"Rough Drafts," *Four Quarters*, X No. 3 (March, 1961), pp. 19-21.

Lectures: "The Relations between American Literature and Art," China Association of Artists and Writers (P.E.N. Club), Taipei, Taiwan, November 6, 1960; "Greece and the American Greek Revival Movement," Rotary Club of Taipei, Taipei, Taiwan, November 10, 1960; "How to Improve Your English; a Review of New Teaching Methods," English Association of National Chengchi University, Musan, Taipei, Taiwan, November 23, 1960; "The Greek Revival in American Art and Literature," National Taiwan University, Taipei, Taiwan, November 26, 1960; "Some Trends in Modern American Art and Literature," Chinese Military Academy, Fengsheng, Taiwan, November 30, 1960; "Why *Huckleberry Finn* is the Greatest American Novel," Tamkang College, Taipei, Taiwan, December 5, 1960; "Poetry Concert," Providence English College, Taichung, Taiwan, December 17, 1960; "American Folksongs," Providence English College, Taichung, Taiwan, December 17, 1960; "Some Trends in Modern American Art and Literature," Tunghai University, Taichung, Taiwan, December 18, 1960; "American Folksongs," Tunghai University, Taichung, Taiwan, December 18, 1960; "American Folksongs," Soochow Law College, Taipei, Taiwan, January 6, 1961; "Some Trends in American Literature," University of Rangoon, Burma, February 10, 1961; "Some Trends in American Literature," USIS and the University of Hong Kong, February 26, 1961; Discussion Conference, "The Writing and Teaching of American Literature," Thailand P.E.N. Club, Bangkok, Thailand, February 11, 1961; "The Art of Rewriting," Taipei American School, Taipei, Taiwan, April 17, 1961; "American Literature and Art from the Beginnings to 1776," U.S. Educational Foundation, USIS, Manila, P. I., April 24, 1961; "Modern American Art and Literature," Santo Tomas University, Manila, P. I., April 25, 1961; "The Greek Revival in American Art and Literature," U. S. Educational Foundations, USIS, Manila, P. I., April 25, 1961; "Realism and Romanticism in American Art and Literature to the end of the 19th Century," U. S. Educational Foundation, USIS, Manila, P. I., April 26, 1961; "Modern American Art and Literature," The University of the Philippines, Quezon City, P. I., April 27, 1961; "Modern American Art

and Literature," U. S. Educational Foundation, USIS, Manila, P. I., April 27, 1961; "Poetry Concert," USIS, Taipei, Taiwan, May 2, 1961; "Modern American Art and Literature," Provincial Cheng Kung University, Tainan, Taiwan, May 5, 1961; "Modern American Architecture," Cheng Kung University, Tainan, Taiwan, May 5, 1961; "Poetry Concert," Cheng Kung University, Tainan, Taiwan, May 6, 1961; "Chaucer's Narrative Skill in *The Wife of Bath* and *The Pardoner*," Taiwan Normal University, Taipei, Taiwan.

BENHAM, T. A.

Books: J. Malvern Benjamin, Jr., *Electronic Obstacle and Curb Detectors for the Blind*.

Articles: J. Malvern Benjamin, Jr., "Electronic Travel Aid for the Blind," paper presented at the National Institute of Radio Engineers Convention before Professional Group on Biological and Medical Electronics, New York, March 21, 1961.

Editorial Work: Editor and Manager of *Science for the Blind*.

Lectures: "Talking the Hard to Take Courses," Workshop on the Techniques of Placing Blind Persons in Professional Occupations, May 23, 1961; "Satellite Tracking at Haverford College," Haverford Township Radio Club, November 17, 1960; Frank Ford Show, WPEN, December 16, 1960; Amateur Radio Club of Chester, January 10, 1961; Right Angle Club, Philadelphia, February 3, 1961; Mt. Airy Amateur Radio Society, March 15, 1961; Phil-mont Mobile Radio Club, May 1, 1961; 53rd Reunion Class of 1908, Central High School, Philadelphia, May 20, 1961.

Chairman of the Board, Philadelphia Association for the Blind.

Principal Investigator, Research on Travel Aids for the Blind.

Senior Member, Institute of Radio Engineers.

Chairman, Professional Group on Audio, Institute of Radio Engineers.

Participant, Conference on Guidance Devices sponsored by Veterans Administration, April 6, 1961.

Haverford College IRE Representative.

Judge, Essay Contest for American Association of Instructors for the Blind, April, 1961.

Member, Committee for Research on Problems Associated with Blindness, Inc.

Continued activity in the study of space communications and space probe tracking.

Served on Advisory Committee of Recording for the Blind, Inc., under grant from Office of Vocational Rehabilitation, Washington.

Served on Advisory Committee for Mathematics and Scientific Notations of the New York Guild for the Jewish Blind.

Membership on th Governor's Committee for Employment of the Handicapped.

BORTON, HUGH

Parts of Books: Chapter entitled, "Modern Japanese Economic Historians," pp. 288-306, W. G. Beasley and E. G. Pulleyblank, eds., *Historians of China and Japan*, Oxford, University Press, 1961.

Section P, "Japan," pp. 296-319, George F. Howe and others, eds., *Guide to Historical Literature*, Macmillan Company, 1961.

Lectures: "The Re-emergence of Japan," Buck Hill Falls, July 24, 1960; "Japan's Position in the Free World," World Affairs Council, November 2, 1960; "United States-Japanese Relations," Adult School, Haddonfield, N. J., November 28, 1960; "Can Democracy Survive in Japan?" Friends Social Union, January 21, 1961; "Problems of Contemporary Japan," Rotary Club of Chester, February 28, 1961; "Haverford's Role in the 1960's," Alumni Day, May 6, 1961; "Widening Horizons," Oakwood School Commencement, June 10, 1961; "Haverford Today and Tomorrow; An Explanation of the Development Program," delivered before sixteen different alumni groups throughout the country from October to April; "Development of United States Postwar Policy for Japan," of "Democracy and Politics," Program 8 of "Japan: The Changing Years," University of Michigan Educational Television Films.

Vice President, Trustee, Japan Society, Inc.

Board of Directors: American Friends Service Committee, Japan International Christian University Foundation, Lingnan University, Pendle Hill, Penjerdel, World Affairs Council of Philadelphia.

Life Fellow: International Institute of Arts and Letters.

Member: Harvard Visiting Committee on Far Eastern Civilizations.

Honorary Degree: Doctor of Laws, Temple University; Doctor of Laws, University of Pennsylvania.

BROOKS, JAMES O.

Lectures: "The Philips Visitor Program at Haverford," 41st Summer Meeting, Mathematical Association of America, August, 1960.

CADBURY, HENRY J.

Books: Revision of *The Second Period of Quakerism*, by W. C. Braithwaite (especially additional notes, pp. 648-714), Cambridge University Press, 1961, xxxvi.

Parts of Books: Foreword to *The Standard of the Lord Lifted Up*, by Mary Hoxie Jones (New England Yearly Meeting, 1961), pp. vii, viii.

Articles: "What Should Be the Role of the AFSC Today?" *Quaker Life*, Series II, No. 4, April, 1961, p. 99.

"History in Cash Accounts," *Bulletin of Friends' Historical Association*, 50, 1961, pp. 46-51.

Reviews: S. V. McCasland, *The Religion of the Bible*, *Journal of Biblical Literature*, LXXIX, 1960, 382.

Dom Jacques Dupont, *Les Sources du Livre des Actes: État de la Question*, *Journal of Biblical Literature*, LXX, 1961, pp. 78-79.

The New English Bible, New Testament, *Friends Journal*, Vol. 7, 1961, p. 110.

Editorial Work: "Briefer Notices" and "Research in Progress," departments in *Bulletin Friends Historical Association*; "Letters from the Past," occasional column in *Friends Journal*.

Lectures: Foxhove Association, Buck Hill Falls, Pa.; New York Yearly Meeting, Silver Bay, N. Y.; AFSC Institute, Carmel, N. Y. (5); Friends Educational Committee, Wallingford, Pa.; AFSC Regional Conference, Germantown, Ohio (2); First Friends Church, Richmond, Ind.; Community Council of Religious Education, Jenkintown, Pa.; Forum of Friends Meeting, Swarthmore, Pa.; Central Philadelphia Meeting, Philadelphia, Pa.; Museum of School of Art, Philadelphia, Pa.; Divinity School of the Protestant Episcopal Church, Philadelphia, Pa.; Friends Meeting, Haverford, Pa. (10); Women's Fellowship Group, Haverford, Pa.; Friends Forum, Downingtown, Pa.; University of Washington, Seattle, Wash.; Seattle Pacific College, Seattle, Wash.; YMCA and YWCA, Seattle, Wash. (5); University Meeting, Seattle Wash.; Friends Meeting, Tacoma, Wash.; Fellowship of Reconciliation, Tacoma, Wash.; Christian Ministers Institute, Enid, Okla. (3); First Christian Church, Ponca City, Okla.; Friends Adult Class, Germantown, Pa. (4); Haverford Quarterly Meeting, Merion, Pa.; College Interfaith Association, Bryn Mawr, Pa.; Friends Meeting, Washington, D. C.; Ursinus College, Collegeville, Pa.; Friends Meeting, Haddonfield, N. J. (2); Friends Meeting, Shrewsbury, N. J. (2); Friends Meeting, Frankford, Pa.; School Seniors, Westtown, Pa.

Preaching Engagements: Baccalaureate Address, Bryn Mawr College.

Chairman, Board of Directors, Bryn Mawr College.

Honorary Chairman, American Friends Service Committee.

Director, Friends Historical Association.

Member, Standard Bible Committee.

Lecturer, Pendle Hill (two terms).

Clerk, Philadelphia Yearly Meeting on Worship and Ministry.

CADBURY, WILLIAM E., JR.

Books: A. E. Severinghaus and H. J. Carman, *Preparation for Medical Education: A Restudy*, McGraw-Hill Book Co., 1961.

Articles: "Before the Bulldozers," *Haverford Horizons*, October, 1960, Vol. 2, No. 2, pp. 4-7.

Lectures: "The Need for Quality," Annual Conference of Premedical Advisers, University of Virginia, April 28, 1961; "Preparation for Medical Education in the United States," Conference for Foreign Medical Scholars, University of Rochester, June 26, 1961.

Conference Chairman, Conference on Outstanding Students in Liberal Arts Colleges,
Buck Hill Falls, Pa., March 26-29, 1961.
Panelist, "The Preprofessional and the General Degree," American Conference of
Academic Deans, January 10, 1961.
Consultant, Preprofessional Curricula, Thiel College, April 18, 1961.
Member, Committee in Charge of Westtown School.
Vice-Chairman, American Conference of Academic Deans.
Member, Board of Directors, Main Line Council on Alcoholism.

CARY, JOHN R.

Member, Board of Managers, Friends Program for Teacher Training.
Member, Pendle Hill Board of Managers.
Member, School Committee, Haverford Friends Meeting.

COMFORT, HOWARD

Preaching Engagement: South China, Maine, August 7, 1960.

DAVENPORT, GUY

Books: Completed Ph.D. Thesis: *A Reading of Cantos I-XXX of the Cantos of Ezra Pound*, Harvard University, June, 1961.
Parts of Books: Essay entitled "Pound and Frobenius," Lewis Leary, ed., *Motive and Method in the Cantos of Ezra Pound*, Columbia University Press, 1961.
Lectures: "Samuel Beckett," Haverford College Arts Council Lecture, November, 1960; "Vortex 1910: Wyndham Lewis, Henri Gaudier-Brzeska, Ezra Pound, William Carlos Williams," Bryn Mawr College Arts Council Lecture, May, 1961; "Kenneth Patchen: A Tribute," preface to a reading of the poet's work.

DAVISON, JOHN

First performances of compositions:

Suite for Cello and Piano, Haverford College, October 16, 1960.
Suite for Flute and Piano, Swarthmore College, December 11, 1960.
Four Preludes and Fugues for Piano, Philadelphia Conservatory of Music, February 21, 1961.
Triptych for men's chorus and orchestra, Haverford College, February 24, 1961.
Suite for Flute, Violin, and Piano, Haverford College, May 5, 1961.
Twelfth Night Suite for chorus and recorders, Main Line Community Music Groups, Haverford College, May 10, 1961.
Psalms 100 for mixed chorus, New School of Music, May 19, 1961.
Panel Member, "The Music of the Future," National Association for American Composers and Conductors, Philadelphia, Pa., May 24, 1961.

DE GRAAF, FRANCES

Lectures: Panel Member, "The Teaching of Russian," National Meeting of the American Association of Teachers of Slavic and East European Languages, Philadelphia, Pa., December, 1960.

Chairman of the Pennsylvania Chapter of the American Association of Teachers of Slavic and Eastern European Languages.

DESJARDINS, PAUL

Lectures: "Roman Catholics and the Ecumenical Movement," Trinity Church, Philadelphia, Pa.; "Quakers and Roman Catholics," Friends School, Moorestown, N. J.

DIAMANT, ALFRED

Books: *Austrian Catholics and the First Republic: Democracy, Capitalism, and the Social Order, 1918-1934*, Princeton University Press, 1960.

Editorial Work: Rendered editorial judgment on manuscripts for the *Journal of Politics*.

Lectures: "France and Western Unity," broadcast WIBG, World Affairs Council of Philadelphia, Pa., February 19, 1961; "Christianity and Communism," Christ-West Hope Presbyterian Church, Penn Wynne, Pa., March 1, 8, 15, 22, 1961; "The Fifth French Republic: Stability and Change," Alfred University, Alfred, N. Y., May 11-13, 1961.

Panel Member, American Society for Public Administration, Comparative Administration Group, Philadelphia, April 6-8, 1961.

Official Representative for Middle States Association of Secondary Schools and Colleges, American Academy of Political and Social Science annual meeting, April 14-15, 1961.

DRAKE, THOMAS E.

Parts of Books: "Quakers, The, or The Society of Friends," for new edition of *Dictionary of American History*, Scribner.

"The Quaker Collection, Haverford College Library" in Anna Brinton, ed., *Then and Now; Quaker Essays, Historical and Contemporary*, by Friends of Henry Joel Cadbury, University of Pennsylvania Press, 1960.

Lectures: "The Acquisitions Policy of the Quaker Collection at Haverford," Philadelphia Chapter of the Association of College and Research Librarians, University of Pennsylvania Faculty Club, December 1, 1960.

Member, Board of Directors, Friends Historical Association.

DUNATHAN, HARMON

Paper: "The Structure of the Dimer of Acetone Anil," American Chemical Society, St. Louis, Mo., 1961.

Lectures: "The Structure of the Dihydroquinoline Dimers," University of Pennsylvania, Graduate Seminar in Organic Chemistry; "The Structure of the Dihydroquinoline Dimers," Bryn Mawr College, Chemistry Colloquium.

Member, Evaluation Panel, National Science Foundation.

FINGER, IRVING

Articles: C. C. Heller, "Antigenic Variation of Cytoplasmic Particles in Paramecium," abstracts of *Xe Congrès International de Biologie Cellulaire*.

C. C. Heller. "Gel Diffusion Analysis of Cross-Reactions of a Protein-Hapten Conjugate," *Journal of Immunology*, 85, p. 332.

M. Kaback, P. Kittner and C. C. Heller, "Immunological Studies of Isolated Particulates of Paramecium Aurelia, I. Antigenic relationships between cytoplasmic organelles and evidence for mitochondrial variations as demonstrated by gel diffusion," *Journal of Biophysical and Biochemical Cytology*, 8, p. 591.

Lectures: Tenth International Congress of Cell Biology, Paris, France; "Recent Studies on Antigens of Paramecium," Department of Genetics, Carnegie Institution, Washington, D. C., Cold Spring Harbor, N. Y.

FLIGHT, JOHN W.

Lectures: "The Dead Sea Scrolls and the New Testament," Unitarian Fellowship, York, Pa., October, 1960 (3); "The Major Prophets of the Old Testament," Chestnut Hill Friends Meeting Study Group, November, 1960 (3).

Preaching Engagements: Unitarian Fellowship, Berwyn, Pa., December, 1960; Unitarian Fellowship, West Chester, Pa., January, 1961.

GLICKMAN, HARVEY

Parts of Books: "The American Legion Dies Laughing," in *A View of the Nation, an Anthology: 1955-59*, Henry Christman, ed., Grove Press, 1960, pp. 199-204.

Articles: "Viewing Public Opinion," *Mercurio*, November, 1960 (in Italian).

Reviews: As Book Editor of *Africa Report*, Washington, D. C. monthly, contributor of regular monthly column of reviews of recent books.

Editorial Work: Book Editor of *Africa Report*.

Lectures: "African Politics," Princeton, N. J. Adult School, October, 1960; "African Politics Today," Women's Luncheon Group, World Affairs Council, Philadelphia, Pa., October, 1960; Frank Ford Show, WPEN, Philadelphia, Pa., November, 1960; "African Politics: the Legacy of French and Belgian Colonial-

ism," University of Delaware International Relations Group, January, 1961; "Explosive Africa," Great Decisions Series, World Affairs Council, Haddonfield, N. J., Philadelphia, Pa., Ardmore, Pa., March, 1961; "African Politics," Trenton, N. J. Adult School, April, 1961.

Member, Advisory Group, VISA Program, American Friends Service Committee, Philadelphia, Pa.

GREEN, LOUIS C.

Lectures: "Atomic Wave Functions Which Include Correlation," Astronomy Colloquium, Princeton University, Princeton, N. J.; "An Atomic Wave Function Which Includes Correlation," Atomic Spectroscopy Symposium, Argonne National Laboratory, Argonne, Ill.; "Satellites, Rockets, and the New Astronomy," Astronomical League, Haverford, Pa.; Drexel Institute of Technology, Philadelphia, Pa.; Student Section of American Institute of Physics, Philadelphia, Pa.; National Capital Astronomers, Washington, D. C.; Cheltenham Science Seminar, Cheltenham, Pa.; "Distances, Motions and Brightnesses of the Stars," and "Exploration of the Universe," Astronomy Course at the Franklin Institute, Philadelphia, Pa.

Member, Sub-Committee on Intensity Tables, International Astronomical Union.

GUTWIRTH, MARCEL

Articles: "The Place of the Humanities in a Liberal Arts College," *Haverford Horizons*, January, 1961.

Lectures: "Darwin, Marx, and Freud," Freshman Orientation Address, Haverford College, Haverford, Pa., September, 1960; "The Place of the Humanities in a Liberal Arts College," Haverford Corporation Address, Haverford, Pa., October, 1960; "Marcel Proust," Bryn Mawr College, Bryn Mawr, Pa., April, 1961; "Franz Kafka's *Metamorphosis*," Senior Seminar conducted at the Devereux School, Wayne, Pa., May, 1961.

HARE, A. PAUL

Articles: "Interview Responses: Personality or Conformity?" *Public Opinion Quarterly*, 1960, 24, pp. 679-685.

Reviews: H. Lennard *et al.*, "The Anatomy of Psychotherapy," *American Sociological Review*, 1961, 26, p. 288.

D. Cartwright and A. Zander, eds., "Group Dynamics," *American Sociological Review*, 1961, 26, p. 172.

Lectures: "Seating Preference and Personality," paper presented at Meeting of Eastern Sociological Society, New York City, April, 1961; "Computer Stimulation of Individual and Group Predictions," paper presented at American Sociological Association Meetings, New York City, August, 1960 and at American Psychological Association Meetings, Chicago, Ill., September, 1960.

Chairman, Small Groups Sessions, American Sociological Association Meetings, New York City.
Board Member, Pendle Hill.

HEATH, DOUGLAS

Articles: "Instructional Sets as Determinants of Expectancy Generalization," *Journal of General Psychology*, 1961, 64, pp. 285-295.

"Research in Religion and Mental Health," in *Religion, Culture, and Mental Health*, Academy of Religion and Mental Health, 1961, Appendix.

Editorial Work: Editorial Consultant for Van Nostrand Co.

Lectures: "Modern Father: the Rip Van Winkle of Contemporary Psychology," Radnor Cooperative Nursery; "Search for a Definition: What is Man?" Merion Friends Community Forum.

HETZEL, THEODORE B.

Articles: "My Spirit Was Very Easy With Them," *Haverford Horizons*, Vol. 2, No. 2, pp. 9-11.

"Visit to Eastern Indian Groups," *Indian Truth*, Vol. 37, No. 2, pp. 1-3.

Editorial Work: *Indian Truth*, Indian Rights Association.

Lectures: "American Indians Today," Solebury Friends Meeting, Friends General Conference, Cape May, N. J.; Haverford Friends School; Chester, Pa. Council of Churches; New England Society of Philadelphia Annual Meeting; Haverford College Indian Conference; Seven Springs Indian Conference; "Federal Obligations to American Indians," WRCV; "Bricks for Self-Help House Construction," Federal Housing Administration Conference, Washington, D. C.; American Indian Chicago Conference; "Indians of the Southwest," First Unitarian Church, Philadelphia, Pa.; "Friends and the Kinzua Dam," Radnor Meeting Forum; "Professional Responsibility," Westtown School; Haverford-Bryn Mawr Student Christian Movement; Lansdowne Meeting.

Chairman, Indian Program Committee, American Friends Service Committee.

Member of Board: Indian Rights Association, Council on Indian Affairs, American Indian Summer Workshop, William Penn Charter School, Emlen Institution, Main Line Ecumenical Campus Committee, Society for Social Responsibility in Science.

Member of AFSC Community Relations, Youth Services, U. S. Projects Committees.

HUDAK, NORMAN J.

Articles: "The Syntheses of Some Highly Hindered Potential Dienopiles, *J. Org. Chem.*, Vol. 26, 1961, p. 1360.

Lectures: "An Attempt to Synthesize Longifolene," Bryn Mawr College Chemistry Colloquium, March 10, 1961.

HUNTER, HOLLAND

- Parts of Books:** "Soviet Economic Perspectives," in *Contemporary Civilization*, Vol. 2, Scott, Foresman, 1961, pp. 71-78.
"Union of Soviet Socialist Republics," *Collier's Encyclopedia for 1960*, P. F. Collier & Son, 1961, pp. 627-38.
- Article:** "Transportation: Discussion and Interviews," *Soviet Survey*, October-December, 1960, pp. 80-89.
- Reviews:** K. N. Plotnikov, *Gosudarstvennyi biudzheth SSSR*, *American Economic Review*, December, 1960, pp. 1084-85.
Gregory Grossman, *Soviet Statistics of Physical Output of Industrial Commodities*, Princeton University Press, 1960, *Annals of the American Academy*, March, 1961, pp. 187-88.
- Lectures:** "Soviet Policy in Europe," World Affairs Council, Philadelphia, Pa.; "The Worker's Chains in Russia," AFSC Internes in Industry, Philadelphia, Pa.; "Soviet and American Growthmanship," World Affairs Council, Radnor, Pa.; Panel on "Pinpoint," WRCV-TV, Philadelphia, Pa.; "The Soviet Managerial System," Harvard Business School Club, Philadelphia, Pa.; "Armament, Disarmament, and the U. S. Economy," United World Federalists, Germantown, Pa.; "A Soviet System for Underdeveloped Countries?" University of Pennsylvania, Philadelphia, Pa.; "Blueprints for the World Economy," WIBG, Philadelphia, Pa.
- Trustee, Fountain Valley School.
Member, Studies Committee, Main Line School Night Association.
Member, Haverford Township Democratic Committee.
Member, AFSC Committees: International Conferences and Seminars, VISA Youth Services Division, Executive Committee.

KENNEDY, GEORGE

- Articles:** "Focusing of Arguments in Greek Deliberative Oratory," *Transactions of the American Philological Association*, XC, pp. 131-8.
"Aeschines," "Andocides," "Antiphon," "Callistratus," "Demades," "Demos-thenes," "Dinarchus," "Hyperides," "Isaeus," "Isocrates," "Lysias," "Lycurgus," "Oratory (Greek and Roman)," "Quintilian," "Rhetoric (Greek and Roman)," and "Ten Attic Orators," *The Grolier Encyclopedia*, Grolier Society, 1960.
"What's Going on in the Classics?" *Haverford Horizons*, October, 1960, pp. 12-13.
- Editorial Work:** Associate editor, "A Bibliography of Rhetoric and Public Address for the Year 1959," *Speech Monographs*, xxvii, 1960, pp. 201-238.
- Lectures:** "Sage Quintilian," University of Wisconsin, November 14, 1960; "Plato's *Menexenus*," Convention of the American Philological Association, Hartford, Conn., December 27, 1960.
- Member, Managing Committee, American School of Classical Studies at Athens, Greece.

LOCKWOOD, DEAN, P.

Editorial Work: Editor, *Bulletin*, Library Associates of Haverford College.
Member, Editorial Board for Mediaeval and Renaissance Latin Translations and Commentaries.
Member, Advisory Council, Renaissance Society of America.

MAASS, JOACHIM

Books: *The Gouffé Case*, Harper, 1961.
Der Fall de la Roncière, Cotta, Stuttgart, a teleplay.
Member, International PEN Club.
Member, German Academy for Language and Literature, Darmstadt.
Awarded Literary Prize, Bavarian Academy of Arts.

MACCAFFREY, WALLACE T.

Parts of Books: Essay entitled, "Place and Patronage in Elizabethan Politics," pp. 95-126, in *Elizabethan Government and Society: Essays presented to Sir John Neale*, S. T. Bindoff, ed., University of London, the Athlone Press, 1961.
Articles: "Talbot and Stanhope: an Episode in Elizabethan Politics," *Bulletin of the Institute of Historical Research*, XXXIII, May, 1960, pp. 73-85.
Reviews: *The Last Tudor King: a Study of Edward VI, the Historian*, summer, 1960.
G. R. Elton, *The Tudor Constitution: Documents and Commentary*, *American Historical Review*, April, 1961.
B. F. Supple, *Commercial Crisis and Change in England, 1600-42*, *Journal of Economic History*, September, 1960.
Fellow of Royal Historical Society.

MACINTOSH, ARCHIBALD

Board of Overseers, the William Penn Charter School.
Member, The College Entrance Examination Board.
Visit to Africa for seven weeks' service on The African Scholarship Program of American Universities Selection Boards in Northern Rhodesia, Southern Rhodesia, Nyasaland, Tanganyika, Zanzibar, Kenya, and Uganda.

MACKAY, COLIN

Articles: M. Pandow and R. Wolfgang, "The Reaction of Atomic Carbon with Oxygen: Significance for the Natural Radiocarbon Cycle," *Journal of Inorganic and Nuclear Chemistry*, 1960, Vol. 14, p. 153.
R. Wolfgang, "Reactions of Carbon Atoms with Ethylene and Propylene," *Journal of the American Chemical Society*, 1960, Vol. 83, p. 2399.

Lectures: "On Some Elementary Chemistry of Atomic Carbon," Symposium on Chemical Consequences of Nuclear Transformation sponsored by International Atomic Energy Agency, Prague, Czechoslovakia, October, 1960; "Reactions of Carbon Atoms with Ethylene and Propylene," American Chemical Society Fall Meeting, New York City, September, 1960.

OAKLEY, CLETUS O.

Books: Revision of *Analytic Geometry*, Barnes and Noble, 1960.

Articles: "Math: Our Link to Space People," *Science Digest*, June, 1961.

Editorial Work: *American Mathematical Monthly*.

Lectures: Panel Member, "The Changing Curriculum in Schools and College Mathematics," School Men's Week, Philadelphia, Pa., October 13, 1960; "Mathematical Faces of Flexagons," Mathematical Association of America, October 28, 1960, Oklahoma City University (joint paper by Greenleaf, Oakley, Osgood, and Wisner).

Mathematical Visitor to the Agnes Irwin School, Rutgers University, Schuylkill County Teachers, University of Puerto Rico, Rio Piedras.

National Science Foundation Lecturer to High School Teachers and Students, Western Pennsylvania, Upper State New York, Georgia, three weeks.

Consultant to National Science Foundation on Summer Institutes.

Chairman, Mathematics Writing Group, College Entrance Examination Board.

Chairman, Committee on Secondary School Lecturers, the Mathematical Association of America.

Chairman of The Mathematics Committee, College Entrance Examination Board.

Chairman of Committee on Secondary School Lecturers, Mathematical Association of America.

PARKER, FRANCIS H.

Articles: "Head, Heart, and God," *The Review of Metaphysics*, Vol. XIV, No. 2, December, 1960, pp. 328-352.

"Classical Realism and the Integration of Knowledge," *The Review of Metaphysics*, Vol. XIV, No. 3, March, 1961, pp. 543-564.

Lectures: "Self-realization as an Approach to Ethics," Germantown Friends School; "Groups, Leaders, and Purposes," Collingdale, Pa. Junior-Senior High School; "Social Service and Individual Happiness," Philadelphia High School for Girls; "Insight and Its Meaning," Holy Family College, Philadelphia, Pa.; "Can Ethical Claims be True?" West Chester Unitarian Fellowship, West Chester, Pa.; "Modern Man in Search of Meaning," a course in the Liberal Studies Program of the Main Line School Night, Radnor High School.

President, The Association for Realistic Philosophy.

Secretary-Treasurer, The Metaphysical Society of America.

PFUND, HARRY W.

Article: "Observations From a German Balcony," *American-German Review*, XXVII, No. 1, October-November, 1960, p. 3.

Review: W. Pfeiffer-Belli, F. Beutler *et al.*, eds., *Briefe aus Goethes Elternhaus*, *American-German Review*, XXVII, No. 5, June-July, 1961, p. 37.

Editorial Work: Associate Editor, *American-German Review*.

Member, Board of Overseers, Erstes Deutsches Reichswaisenhaus, Lahr, Black Forest, Germany.

President, Carl Schurz Memorial Foundation.

Vice President and Chairman, Library Committee, German Society of Pennsylvania.

POST, L. ARNOLD

Parts of Books: Translation of Menander, *Dyscolus*, with revised translation of other plays of Menander, in *The Complete Greek Drama*, Random House.

Reviews: Menander, *Dyscolus*, H. J. Mette, ed., *American Journal of Philology*, 82, January, 1961, pp. 94-104.

Menander, *Dyscolus*, edited by H. Lloyd-Jones, edited by B. A. van Groningen, translated by W. H. Hewitt and M. W. M. Pope, *The Classical World*, 54.6, March, 1961, 173f.

Editorial Work: Loeb Classical Library, Lucian VII, Plutarch, *Moralia*, IX.

Lectures: Dramatic readings of Menander, *Dyscolus*, Haverford College, Collection, January 3, 1961, St. John's College, Annapolis, Md., February 10, 1961.

The complete play of *Dyscolus* (Post translation) was presented by the University Theatre, Berkeley, Calif., on December 8, 9, 10, 14, 15, and 16, 1960.

PRITCHARD, EARL H.

Books: Co-author-editor of the American Historical Association's *Guide to Historical Literature*, Macmillan, 1961.

Vice President of the Association for Asian Studies.

Member, American Historical Association's Committee on Research Needs of the Historical Professor.

Member, American Historical Association's Committee on South Asian History.

ROSE, EDGAR S.

Lectures: "The Freshman English Program at Haverford," Pennsylvania College English Association, Villanova University, Villanova, Pa., April 15, 1961.

RUDOLF, OTTOMAR

Reviews: Joachim Maass, *The Gouffé Case*, *Haverford College News*, April, 1961.

Lectures: "Schwäbischer Dialekt," WCAM, Camden, N. J., November, 1960, Panel

Member, "Eine Faust-Lesung," WCAM, Camden, N. J., January, 1961.

SANTER, MELVIN

Articles: "Environment-Induced Changes in the Base Ratios of Ribonucleic Acid of *Escherichia coli*," in *Journal of Molecular Biology*, 1960, 2, p. 273.

Reviews: *Chemolithotrophic Bacteria* in *Reinhold Encyclopedia of the Biological Sciences*, 1961, pp. 213-215.

SARGENT, RALPH M.

Lectures: "The Liliaceae of North America," Philadelphia Botanical Club, Academy of Natural Sciences, Philadelphia, Pa., November 17, 1960; "Botanical Photography," Joint Meeting of Nature Division, Photographic Society of America, and American Nature Study Society, American Association for the Advancement of Science, New York City, December 30, 1960.

Host Committee, Modern Language Association of America.

National Council, Renaissance Society of America.

Committee on Policy and Organization, American Association of University Professors.

Committee on Resolutions, American Association of University Professors.

Trustee, Highlands Biological Station.

Trustee, Hudson Library.

Vice President, Philadelphia Botanical Club.

Board of Visitors, Union College.

SATTERTHWAITE, ALFRED

Books: *Spenser, Rosard, and Du Bellay; A Renaissance Comparison*, Princeton University Press, 1960.

Articles: "A Re-examination of Spenser's Translations of the 'Sonets' from *A Theatre for Worldlings*," *Philological Quarterly*, XXXVIII, IV, October, 1960, pp. 509-515.

Lectures: "Crime and Punishment," The Baldwin School, February, 1961; "The Iliad," The Baldwin School, April, 1961; "Tragedy in the Modern World," The Philadelphia Private School Association, April, 1961.

SELOVE, FAY AJZENBERG

Parts of Books: T. Lauritsen, section entitled "Energy Levels of the Light Nuclei," in *Annual Review of Nuclear Science*, 10, 1960, pp. 409-424.

Articles: K. L. Dunning, "Neutrons from the He^3 Bombardment of O^{16} and Mg^{24} ," *Physical Review*, 119, 1960, pp. 1681-1685.

P. H. Stelson, " $\text{Be}^9(\alpha_1 n)\text{C}^{12}$ Reaction and the Parameters of the 7.66-Mev State of C^{12} ," *Physical Review* 120, 1960, pp. 500-504.

L. Cranberg and F. S. Dietrich, "Energy Levels of Na^{21} and Mg^{22} ," *Bulletin of American Physical Society*, 5, 1960, p. 493.

"A Note on F^{16} ," *Nuclear News*, December, 1960, pp. 5-6.

Reviews: M. Bayet, "Physique Nucleaire," *Physics Today*, February, 1961, pp. 60-61.

Editorial Work: Editorial Board, *Nuclear News*.

Lectures: "On Light Nuclei with Large Mass Excesses," Case Institute of Technology, March 27, 1961; Rensselaer Polytechnic Institute, April 12, 1961; "Matter and Waves," Philadelphia High School for Girls, May 18, 1961.

Consultant to Physics Panel of the National Science Foundation.

Guest Associate Physicist, Brookhaven National Laboratory.

Grantee, National Science Foundation.

Fellow, American Physical Society.

SMOLENSKY, EUGENE

Books: Completed Ph.D. Thesis: *The Location of Economic Activity and the Size Distribution of Income*, University of Pennsylvania, June, 1960.

Articles: "Developpements Recents Dans La Science Economique Regionale," *Cohiers de L'institut de Science Economique Appliquée*, No. 112, April, 1961, pp. 5-13.

Lectures: "Industrialization and Income Inequality—Recent U. S. Experience," Paper presented at Annual Meeting of Regional Science Association, December, 1960; Discussant, "Econometrics in Action," Pennsylvania Association of Economists, June, 1961.

SNYDER, EDWARD D.

Articles: "Whittier and the Unitarians," *The Bulletin of Friends Historical Association*, Vol. 49, No. 2, 1960, pp. 111-116.

Preaching Engagements: Main Line Unitarian Fellowship, January 8, 1961; May 7, 1961.

SOLOMON, LOUIS

Articles: "The Representations of Finite Groups in Algebraic Number Fields," *Proc. Math. Soc. Japan*, 13, 1961, pp. 144-164.

Lectures: "The Extension of Characters of Finite Groups," University of Pennsylvania Mathematics Colloquium, February, 1961; "The Five Regular Solids," Pi Mu Epsilon, April, 1961.

Member of Summer Institute on Finite Groups (National Science Foundation), Pasadena, Calif., August 1-28, 1960.

SOMERS, ANNE RAMSAY

Books: H. M. Somers, *Doctors, Patients, and Health Insurance*, The Brookings Institution, 1961.

Parts of Books: H. M. Somers, "Social Security: Recent Developments and Emerging Concepts" (pp. 44-61); "Private Health Insurance: Changing Patterns" (pp. 351-

363); and "Private Health Insurance: Problems, Pressures, and Prospects" (pp. 382-385) William Haber and Wilbur J. Cohen, eds., *Social Security Programs, and Policies*, Irwin, 1960.

Articles: H. M. Somers, "Coverage, Costs, and Controls in Voluntary Health Insurance," *Public Health Reports*, Vol. 76, No. 1, pp. 1-9.

"The Paradox of Medical Progress," *Pennsylvania Medical Journal*, Vol. 64, January, 1961.

"A Community View of Health Plans under Collective Bargaining," *Insurance Law Journal*, No. 456, pp. 14-19.

Reviews: International Labour Office, *The Cost of Medical Care, Social Work*, Vol. 5, No. 3, July, 1960, p. 123.

Lectures: "Modern Medical Care: Achievements and Issues," Pennsylvania Medical Society Conference on Health Care, Hershey, Pa., November 18, 1960; "Negotiated Health Plans: Present and Future," American Public Health Association, Medical Care Section, and Group Health Association of America, San Francisco, Calif., November 2, 1960; "The Economics of Medical Care," Haverford College Economics Discussion Group, Haverford, Pa., May 31, 1961.

Consultant to Social Security Administration, Cooperative Research and Demonstration Grant Program.

Member, Pennsylvania Department of Labor and Industry, Advisory Committee on Working Conditions for Women and Minors.

Member, Africa Committee, American Friends Service Committee.

Member, Forum Committee, Radnor Friends Meeting.

SOMERS, HERMAN M.

Books: Anne R. Somers, *Doctors, Patients, and Health Insurance*, The Brookings Institution, 1961.

Parts of Books: Anne R. Somers, "Social Security: Recent Developments and Emerging Concepts" (pp. 44-61); "Private Health Insurance: Changing Patterns" (pp. 351-363); "Private Health Insurance: Problems, Pressures, and Prospects" (pp. 382-385); "Myth and Reality in Workmen's Compensation" (pp. 428-440); William Haber and Wilbur J. Cohen, eds., *Social Security Programs, Problems, and Policies*, Irwin, 1960.

Articles: Anne R. Somers, "Health Insurance: Are Cost and Quality Controls Necessary?" *Industrial and Labor Relations Review*, July, 1960, pp. 581-595.

Anne R. Somers, "Coverage, Costs, and Controls in Voluntary Health Insurance," *Public Health Reports*, Vol. 76, January, 1961, pp. 1-9.

Statement on proposed legislation, *Hearings*, before the Committee on Ways and Means, House of Representatives, on H.R. 3864 and H.R. 3865, February 17, 1961, pp. 254-264.

Anne R. Somers, "Rehabilitation and Workmen's Compensation," in C. H. Patterson, ed., *Readings in Rehabilitation Counseling*, Stipes Publishing Company, 1960, pp. 227-234.

- "Some Issues in the Improvement of the Federal-State Unemployment Insurance Program," *Proceedings*, 12th Annual Meeting, Industrial Relations Research Association, 1960, pp. 92-103.
- Reviews*: Monroe Berkowitz, *Workmen's Compensation: The New Jersey Experience*, *American Political Science Review*, LIV, No. 3, September, 1960, p. 769.
- Editorial Work*: Editorial consultant, studies in workmen's compensation, Institute of Industrial Relations, University of California, Berkeley, Calif.
- Lectures*: "Presidential Transition: The Awkward Interval," American Political Science Association Meetings, New York City, September 7, 1960; "Current Developments in Medical Care and Health Insurance," Industrial Relations Research Association, Washington, D. C., January 4, 1961; "The Cost of Medical Care," Philadelphia Committee on City Policy, January 17, 1961; "The Organization and Financing of Medical Care" (2), Employee Training Program, Bureau of Old Age, Survivors and Disability Insurance, Baltimore, Md., March 6, 1961; "An Emerging Philosophy of Social Security," Annual Spring Lecture, University of Pennsylvania School of Social Work, April 27, 1961; "The Interrelationship of Private and Public Medical Care Programs," New York Academy of Medicine, April 29, 1961; "Medical Care and Industrial Relations," Seminar on Industrial Relations, Harvard University, May 10, 1961.
- Senior Research Fellow in Public Affairs, Social Science Research Council, 1960-61.
- Visiting Research Professor, The Brookings Institution, Washington, D. C., 1960-61.
- Member, Human Needs Panel, The President's Commission on National Goals.
- Chairman, Advisory Committee on Medical Care for Aged, California Department of Social Welfare.
- Chairman, Panel on Research in Medical Economics, Industrial Relations Research Association Meetings, St. Louis, Mo., December 29, 1960.
- Consultant, Planning Committee on Income and Maintenance, White House Conference on Aging, Washington, D. C., 1960-61.
- Moderator, debate between Senator J. A. Frear and Governor C. Boggs, candidates for U. S. Senator from Delaware, WCAU-TV, October, 1960.
- Member, Advisory Council, Department of Politics, Princeton University.
- Member, Political Science Screening Committee, Conference Board of Associated Research Councils, Washington, D. C. (Senior Fulbright and Smith-Mundt Awards).
- Executive Board, Industrial Relations Research Association.
- Executive Board, Inter-University Case Program.
- Member, President-elect Kennedy's Task Force on Health and Social Security.
- Board of Directors, American Civil Liberties Union of Philadelphia.
- Board of Directors, World Affairs Council of Philadelphia.

STEERE, DOUGLAS V.

- Books*: *Rain on the Mountain*, Johnson Memorial Lecture, Five Years Meeting, 1960.
- Parts of Books*: Chapter, "On the Power of Sustained Attention," pp. 284-303, *Then and Now*, Anna Brinton, ed., University of Pennsylvania Press, 1960.

Chapter, "Religious Encounter," pp. 170-181, *Buddhism and Culture*, Susumu Yamaguchi, 1960.

Chapter: "The Personal Factor in the Reconciliation of Conflict," pp. 117-132, *Peace and Power*, Parthenon Press, 1960.

Chapter: "Baron Friedrich von Hugel as Spiritual Director," pp. 45-88, *Search for Meaning*, Wainwright House Publication, 1961.

Reviews: Richard Kroner, *Speculation and Revelation in Modern Philosophy*, Bookman, May, 1961.

Editorial Work: Editorial Consultant on Religious Books, Harper Bros., New York City.

Editorial Board, *Religion in Life*, New York City.

Lectures: "Rain on the Mountain," Johnson Memorial Lecture, Five Years Meeting, Richmond, Ind.; "Development for What?" Koinonia Foundation Convocation, Baltimore, Md.; "The Place of Value Systems in Medical Education: Some Philosophical Factors," Fourth Academy Symposium Religion and Mental Health, Arden House, Harriman, New York; "The Inward Life," Methodist Clergy of Indiana, Greensburg, Ind.; "The Anatomy of Prayer" (5), First Presbyterian Church, Tallahassee, Fla.; "Five Christian Classics" (5), Fifth Avenue Presbyterian Church, New York City; "The Role of Philosophy in a University Curriculum," Faculty Fellowship, Florida State University, Tallahassee, Fla.; "Some Unmet Decisions in India, Today," Kistler Club, Rosemont College, Rosemont, Pa.; "Post-Freedom Problems in Africa," Old Philadelphia Club, Philadelphia, Pa.; "African Thresholds," Episcopal Church, 52nd St., Philadelphia, Pa.; Seminar, Minneapolis Friends Meeting, Minneapolis, Minn.; Seminar, Cambridge Friends Meeting, Cambridge, Mass.; "Communication Between the World Religions," Unitarian and Universalist Annual Dinner, Boston, Mass.; Address at Dedication of Meeting House, Chapel Hill Friends Meeting, Chapel Hill, N. C.; "Some Unresolved Problems on the Quaker Agenda," Baltimore Stony Run Friends Quarterly Meeting; "The Genius of Quaker Worship," Yale Episcopal House, New Haven, Conn.; "The Uses of Silence," Radnor Meeting Forum, Ithaca, Pa.; "Quaker Fundamentals," Half Yearly Meeting, Easton, Md.

Preaching Engagements: Chicago Sunday Evening Club.

Berea College, Germantown Unitarian Church, Wilmington College (Baccalaureate Address).

Four Retreats at Pendle Hill.

Chairman of Board: Pendle Hill.

Chairman of American Section of IFOR.

Chairman of Committee to Arrange Meeting with Eastern Religious Leaders.

Board Member, Woolman Memorial.

Board Member, Wainwright House.

Board Member, Theodore Binder Schweitzer Amazonian Hospital.

AFSC: Africa Committee, International Centers Committee, VISA Committee, Friends World Committee, Executive Committee.

SWAN, ALFRED J.

Articles: "Die Musik in Geschichte und Gegenwart," Friedrich Blume, ed., Volume M, columns 1222-1228 (Life of Modest Mussorgski).

Lectures: Philadelphia Chapter of the American Guild of Organists, April 8, 1961; Performances of liturgical canticles (from the Haverford College series), a. During the Oecumenical Council in Munich, August 4, 1960, b. In the Johannis-Church at Osnabruck, November 16, 1960; c. Over the Cologne radio; Scheduled performance of Liturgy during the Congress of Sacred Music in Cologne, June 24, 1961; Various performances of chamber music at periodic concerts of the National Association for American Composers and Conductors, Philadelphia Branch.

TEAF, HOWARD M., JR.

Articles: Discussion: "The Influence of Moral and Social Responsibility on Economic Behavior," *American Economic Review*, LI, No. 2, May, 1961, pp. 558-60.

Lectures: "Economic Impact of a Reduction in Armament Expenditures," Women's International League for Peace and Freedom, Lower Merion Branch, and Ardmore Rotary Club; "Securing Voluntary Public Participation in Development Programs," Institute in Economic, Social and Industrial Development, University of Pittsburgh, and VISA Training Units, American Friends Service Committee.

President, Pennsylvania Conference of Economists.

Board of Directors and Executive Committee, American Friends Service Committee; Program Priorities Committee, International Affairs and Services Executive Committee, Social and Technical Assistance Subcommittee, Volunteers for International Service Subcommittee.

Commission on Role and Responsibility of the Consumer, Dept. of the Church and Economic Life, National Council of Churches of Christ.

Advisory Committee, Research Project on Valuation of Life Insurance Company Investments.

Visiting Examiner in Economics, Denison University, June, 1961.

Labor arbitrations; National Academy of Arbitrators, Committee on Research.

THOMPSON, CRAIG R.

Articles: "Erasmian Humanism," *Society and History in the Renaissance*, Folger Library, 1960, pp. 20-26.

"A Look at the Library," *Haverford Horizons*, Vol. 2, No. 3, January, 1961, pp. 12-14.

Lectures: "Academic Responsibility," Dickinson College, September, 1960; "Before and After Printing," Haverford College Library Associates, October, 1960. Friends of the Library, Westtown School, January, 1961.

Member of the Council, American Society for Reformation Research.

REPORT OF THE TREASURER

*presented at the
Annual Meeting of the Corporation
of Haverford College*

October 17, 1961

YOUR Treasurer is pleased to submit herewith the annual financial report of the college for the year ending August 31, 1961. This report has been audited by Lawrence E. Brown & Company and their statement is attached.

OPERATIONS

Again we closed the year with a slight operating surplus of \$2,695 to be placed in our Income Reserve Account. As in prior years this was due to careful balancing of the trio; expenses, tuition, and endowment income; all went up, faculty salaries by 8%, tuition by \$74,000 and endowment income by \$20,000.

We again paid attention to much needed repairs and replacements. Those of particular note were: the renewal of the brick walk in front of Founders, and transformation of the auditorium in Union into a truly useful place for meetings.

Remark should also be made of the use of generous contributions and of capital funds for the complete renovation of William Wistar Comfort's old home and its conversion into the Henry S. Drinker Hall to house the musical activities of the college. Faculty housing was also added to by the creation, through the use of funds left for that purpose and of college funds, of three most attractive apartments in the Griscom house on Montgomery Avenue.

STUDENT AID

As you are all probably very much aware, parents are confronted with constantly rising tuition charges. To meet these charges we note

an increasing use of loan funds. Last year the total of student's loans granted was \$11,600, this year as of now \$19,600. However, outright scholarships still account for a large percentage of tuition income. The total income from tuition was \$565,000; of this amount \$101,000 came from our own scholarship funds and general funds used for scholarships; \$26,500 came from donations made specifically for scholarship purposes; and \$36,500 came from the William Maul Measey Trust for Student Aid. Some slight additional scholarship funds not included in the above are used to help defray the cost of room and board in a few instances.

USE OF CAMPUS

Lest the impression be general that the campus is in use but nine months of the year, let me assure you that such is not at all the case. The summer months are extremely busy ones for the personnel on the campus, and may I take this opportunity to pay my respects to these hardworking members of our staff. Many conferences of churches and other charitable groups are booked for these months. The modest amounts charged these organizations helps defray the cost of a year-round operation of the plant. During the past fiscal year we received some \$25,000 from this source. To repeat, the summer use of the grounds serves three very satisfactory purposes: in making our beautiful campus fully useful for the maximum time; in enabling us to maintain a staff on a year-round basis instead of nine months, and in helping to defray the costs of continual operation. These summer months are, of course, also invaluable for repairs and improvements to the plant.

STOCK DIVIDENDS

An innovation, this time along financial lines, has been introduced by the Finance Committee. This Committee has long been troubled in its corporate mind by the problem of what to do with small recurrent stock dividends. The old-time theory was to place all such dividends in principal as a matter of course; however, of recent years increasing numbers of corporations in order to conserve cash, have declared comparatively small amounts in cash dividends and have supplemented these by annual stock dividends of from 2% to 6%. If the cash dividends alone are placed in income it means a very low yield.

Furthermore many of the corporations following this practice are no fly-by-night enterprises but extremely substantial corporations which are desirable as investments. The committee has, therefore, determined to sell such stock dividends and to place the proceeds in a special account to be used for depreciation, for repairs and replacements. This is a kind of hedge, as you can see, between principal and income. It is difficult to say from year to year how much such proceeds will amount to, but the figure may be conservatively estimated to be between \$15,000 and \$25,000.

ENDOWMENT FUNDS AND RATE OF RETURN

With the rising market, the current value of our portfolio (Consolidated Investments and Philips Fund) has increased to an all-time high of \$20,024,695 as contrasted with a market value of \$17,450,075 on August 31st a year ago. The unit value, the real measure of progress, has increased from \$22.94 to \$25.55. The book value of these same investments was \$12,601,957 (in addition, elsewhere reported, is the William Maul Measey Fund with a book value of \$1,219,318).

We again have followed the policy of making certain shifts from low yielding, high price-earnings ratio common stocks where we thought such ratios unwarranted, into other securities, with resultant capital gains in Consolidated Investments of \$281,136 and in Philips of \$51,486.

The rise in market value had the inevitable result of slightly lowering the yield on the portfolio. This year in Consolidated Investments it was 3.8%, last year 4.13% on market value. On book value the realization of capital gains also had its effect, the yield being this year 5.9% and last year 6.05%. Perhaps the best indication of growth is in the yield on original cost—this year that figure was 9.40%.

The increase in market value has also had the effect of raising the percentage of common stock in relation to the whole portfolio. In Consolidated Investments the percentages of the various categories at the end of the year, were as follows:

Bonds	Book Value 30%	Market Value 19.22%
Preferred Stock	Book Value 14.16%	Market Value 8.69%

Common Stock	Book Value	48.40%	Market Value	67.22%
Mortgages	Book Value	1.02%	Market Value	.67%
College Real Estate	Book Value	6.05%	Market Value	3.96%
Miscellaneous	Book Value	.37%	Market Value	.24%

ADDITIONS TO FUNDS

It is pleasant to report this year substantial additions to endowment funds. We came into possession of the residuary estate of Eli Nichols of about \$350,000 and another loyal alumnus, William Gibbons Rhoads, left the College a legacy of \$25,000. These, together with additional gifts and legacies brought the total additions for the year to \$451,462.

CONCLUSION

On the whole, this has been a good year financially speaking. In spite of a faculty salary increase and a sustained program of replacements, we have managed to come through with a small surplus; our income from investment has gone up; our investment portfolio has increased very substantially in value; and our endowed funds have been added to by sizable bequests. The development program is doing well but our need is for some very considerable gifts from foundations or others to firmly set up our building program.

WM. MORRIS MAIER

Lawrence E. Brown & Company

ESTABLISHED 1882

Certified Public Accountants

(PENNSYLVANIA)

W. EDWIN DILL
ROBERT W. JOHNSTON
R. CARL RHODES
ADDISON R. BROWN, JR.
ALBERT F. ZANGER

1917 FIDELITY-PHILADELPHIA TRUST BUILDING

PHILADELPHIA

October 13, 1961

To the Board of Managers
The Corporation of Haverford College
Haverford, Pennsylvania

Gentlemen:

We have examined the balance sheet of The Corporation of Haverford College as at August 31, 1961, and the related statements of receipts and expenditures, operating statement and report on the funds for the year then ended. Our examination was made in accordance with generally accepted auditing standards, and accordingly included such tests of the accounting records and such other auditing procedures as we considered necessary in the circumstances.

Land, buildings, improvements, furniture and equipment are written off as their cost is funded. Therefore the plant section of the balance sheet shows these assets at no value.

In our opinion, subject to the above comment relating to land, buildings, improvements, furniture and equipment, the accompanying balance sheet and the related statements of income and expenditures, operating statement and report on the funds present fairly the financial position of The Corporation of Haverford College at August 31, 1961 and the results of its operations for the year then ended, in conformity with generally accepted accounting principles for educational institutions applied on a basis consistent with that of the preceding year.

Very truly yours,

Lawrence E. Brown & Co.
Certified Public Accountants

OPERATING STATEMENT

For the Year ending August 31, 1961

Receipts at College – Applicable to the Budget

Tuition	\$565,247.50	
Board	208,283.90	
Rooms	111,080.00	
Board and Rooms from non-students	64,370.41	
Unit Fee	59,332.50	
Miscellaneous receipts	<u>44,383.60</u>	\$1,052,697.91

Income from Funds – Applicable to the Budget

Consolidated Investments – General Funds	\$446,576.22
Wm. Pyle Philips Fund – General	66,917.10
John Farnum Memorial Fund	1,531.26
C. Wharton Stork Art Gift Fund	324.25
Current funds invested	<u>20,368.67</u>

From Trusts:

Henry C. Brown	\$ 2,845.47		
Nathan Branson Hill	176.21		
W. Percy Simpson	<u>1,625.40</u>	<u>4,647.08</u>	540,364.58

Donations Applicable to the Budget

From General Purposes	\$ 81,037.31	
From Other Donations	<u>29,117.89</u>	110,155.20

Interest received	<u>1,547.31</u>
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TOTAL RECEIPTS **\$1,704,765.00**

Expenses of Running the College

Administration	\$209,664.12	
Educational Department	899,252.37	
Maintenance and Operation	310,550.31	
Dining Room and Kitchen	248,321.85	
Development	<u>38,820.56</u>	\$1,646,609.21

Miscellaneous Expenses

Treasurer's, Secretary's, Legal, Board expenses and services	\$ 14,976.31		
Old Style Pensions	16,300.01		
Interest paid	2,957.17		
Working aid to students	7,292.19		
Pensions to Non-Faculty and Reserve	12,935.00		
Reserve for Non-Faculty Death Benefits ..	<u>1,000.00</u>	<u>55,460.68</u>	<u>1,702,069.89</u>

OPERATING SURPLUS ADDED TO INCOME RESERVE **\$ 2,695.11**

FORTY-FIVE]

BALANCE SHEET—

ASSETS

Current

Cash	\$	155,269.08	
Due from Endowment, cash invested		372,273.19	
Accounts receivable, loans, etc.		170,171.94	
Prepaid insurance and expenses		90,607.70	
Inventories		32,939.31	
Deferred charges		<u>141,624.39</u>	\$ 962,885.61

Endowment

Investments: Bonds, stocks and mortgages	\$12,331,030.88	
(Market value \$19,750,146.00)		
Perpetual fire insurance deposits	8,761.10	
Notes receivable	29,322.33	
Investment in college real estate	<u>628,760.67</u>	12,997,874.98

Plant

Land, buildings, improvements, furniture and equipment	<u>0</u>
	<u><u>\$13,960,760.59</u></u>

AUGUST 31, 1961

LIABILITIES

Current

Federal withholding and social security taxes payable	\$	23,669.38	
Temporary loan		190,000.00	
Advance receipts for following year		18,022.73	

Reserves

For operational expenditures	\$	67,973.66	
Pensions, non-faculty		106,656.21	
Death benefits, non-faculty		9,700.00	
Medical reimbursement plan		21,039.56	
Faculty research fund		2,111.55	
Library replacements		6,435.47	
Property maintenance and replacement		4,074.49	
Griscom House renovation		5,000.00	
Miscellaneous		1,301.66	
Income Reserve Account		98,817.50	323,110.10

Donations

Alumni Annual Giving			
For operations of following year	\$80,564.27		
For subsequent year	276.01	\$ 80,840.28	
For special purposes	202,560.78		283,401.06

Unexpended Balance of Income

From endowment funds for special purposes	103,046.17		
Trust Fund principal for building program	21,636.17	\$	962,885.61

Endowment

For general purposes	\$	6,735,218.10	
For Wistar Brown Graduate School		392,442.29	
For Morris Infirmary		14,712.94	
For Haverford Union		1,878.82	
For Scholarships		521,025.28	
For Library		340,893.32	
For old style pensions		254,097.49	
For special purposes		114,571.58	
Augustus Taber Murray Research Scholarship Fund		25,738.29	
John Farnum Memorial Fund		31,741.22	
William Pyle Philips Fund		2,485,966.70	
C. Wharton Stork Art Gift Fund		23,200.00	
Walter R. Faries Scholarship Fund		65,292.69	
Undistributed gain—Consolidated Investment Account		1,618,823.07	
		<u>\$12,625,601.79</u>	
Due to Current Funds, cash invested		372,273.19	12,997,874.98
			<u>\$13,960,760.59</u>

INCOME RESERVE ACCOUNT

AUGUST 31, 1961

Balance in Reserve August 31, 1960	\$ 96,122.39
Operating Surplus for year 1960-1961	<u>2,695.11</u>
Net Position of Income Reserves August 31, 1961	<u><u>\$ 98,817.50</u></u>

NON-FACULTY PENSIONS RESERVE ACCOUNT

RECEIPTS

Balance September 1, 1960	\$95,268.50	
Composed of accumulated reserves and interest		
Added:		
Yearly payments for future and past services	9,116.00	
On account of payments of retired persons	3,819.00	
Interest	<u>2,858.05</u>	\$111,061.55

EXPENDITURES

Pensions paid to nine persons:

W. J. Anderson, Mabel Beard, Alfred J. Harris, Anna B. Hewitt, Mary Norris, J. Otto Rantz, Emanuel Strothers, Henry Wilson, Walter Muraski	<u>4,405.34</u>
Balance August 31, 1961	<u><u>\$106,656.21</u></u>

NON-FACULTY DEATH BENEFIT RESERVE FUND

Balance September 1, 1960	\$ 9,200.00
Composed of accumulated reserves	500.00
Death Benefit paid to W. J. Anderson	<u>\$ 8,700.00</u>
Annual appropriation	1,000.00
Balance August 31, 1961	<u><u>\$ 9,700.00</u></u>

REPORT ON CONSOLIDATED FUNDS

PRINCIPAL

Book Value 9/1/60	Increase	Book Value 8/31/61
\$ 106,302.64		\$ 106,302.64
10,640.09		10,640.09
44,806.59		44,806.59
11,364.35		11,364.35
5,144.24		5,144.24
10,781.94		10,781.94
1,301,375.34		1,301,375.34
275,899.76		275,899.76
21,493.67		21,493.67
42,394.72		42,394.72
9,160.24		9,160.24
45,035.96		45,035.96
1,500.00		1,500.00
39,515.48		39,515.48
174,560.31		174,560.31
26,771.00		26,771.00
24,381.59		24,381.59
125,569.51		125,569.51
218,728.43		218,728.43
126,076.83		126,076.83
102,067.43		102,067.43
14,125.79		14,125.79
25,128.94		25,128.94
10,000.00		10,000.00
5,527.31		5,527.31
67,520.19		67,520.19
5,000.00		5,000.00
4,950.00		4,950.00
280,764.31		280,764.31
7,000.00		7,000.00
2,500.00		2,500.00
1,369,519.75	\$ 60,272.34	1,429,792.09
12,000.00		12,000.00
103,993.26		103,993.26
5,000.00	1,581.02	6,581.02
2,500.00		2,500.00
4,639,099.67	61,853.36	4,700,953.03

FUNDS FOR GENERAL PURPOSES		Balance 9/1/60	Net Income	INCOME		Cr. Balance 8/31/61
				Expended	Special	
General Endowment Fund			\$ 7,821.66	\$ 7,821.66		
John M. Whitall Fund			791.29	791.29		
David Scull Fund			2,459.50	2,459.50		
Edward L. Scull Fund			957.83	957.83		
Wistar Morris Memorial Fund			496.78	496.78		
Israel Franklin Whitall Fund			810.11	810.11		
Jacob P. Jones Endowment Fund			106,792.51	77,717.51	\$29,075.001	
John Farnum Brown Fund			19,092.64	19,027.64	65.002	
Clenentine Cope Endowment Fund			838.34	838.34		
Joseph E. Gillingham Fund			3,899.07	3,899.07		
Elizabeth H. Farnum Fund			861.86	861.86		
James R. Magee Fund			3,120.01	3,120.01		
Albert K. Smiley Fund			146.78	146.78		
Hinchman Astronomical Fund			3,285.60	3,285.60		
Walter D. & Edith M. L. Scull Fund			16,204.09	16,204.09		
Albin Garrett Memorial Fund			3,056.97	3,056.97		
Arnold Chase Scattering Memorial Fund			1,369.00	1,369.00		
Francis B. Gummere Memorial Fund			10,528.61	10,528.61		
Isaac Sharpless Memorial Fund			17,098.88	17,098.88		
General Education Board Fund			11,226.76	11,226.76		
William Penn Foundation			8,584.72	8,584.72		
Walter Carroll Brinton Memorial Fund			1,320.08	1,320.08		
Corporation Fund			1,593.61	1,593.61		
Elizabeth J. Shortridge Fund			73.39	73.39		
Howard Comfort Memorial Fund			384.83	384.83		
Ellen W. Longstreth Fund			6,409.59	6,409.59		
Albert L. Bailey Fund			470.45	470.45		
Elizabeth B. Wistar Warner Fund			435.63	435.63		
T. Allen Hilles Bequest			21,049.70	21,049.70		
Leonard L. Greif, Jr. & Roger L. Greif Fund			524.08	524.08		
Edward M. Wistar Fund			249.34	249.34		
Morris E. Leeds Fund			\$1,980.82	69,480.82	12,500.003	
J. Henry Scattering Memorial Fund			781.88	781.88		
Parker S. Williams Fund			8,341.03	8,341.03		
Gilbert C. Fry Fund			387.47	387.47		
Daniel B. Boyer Fund			200.41	200.41		
Forward			343,805.32	302,165.32		41,640.00

PRINCIPAL			INCOME				
Book Value 9/1/60	Increase	Book Value 8/31/61	Balance 9/1/60	Net Income	Expended	Special	Cr. Balance 8/31/61
\$4,639,099.67	\$ 61,853.36	\$4,700,953.03					
			Forward				
10,000.00		10,000.00	Marriott C. Morris Fund	811.99	\$302,165.32	\$41,640.00	
190,763.62	1,222.13	191,985.75	1949 Campaign Salary Fund	12,221.28	10,999.15	1,222.13 ⁴	
377,004.09	2,439.27	379,443.36	Rufus M. Jones Fd. for Adv. of Teaching	24,392.70	21,953.43	2,439.27 ⁴	
36,178.02		36,178.02	William B. Bell Fund	2,164.06	2,164.06		
25,068.15		25,068.15	Dr. Thomas Wistar Fund	1,599.52	1,599.52		
37,187.20		37,187.20	Charles McCaul Fund	2,446.33	1,946.33	500.00 ¹	
5,000.00		5,000.00	Isaac & Lydia Cope Sharpless Fund	330.25	330.25		
4,500.00		4,500.00	Class of 1937 Fund	216.41	216.41		
							{ 10,000.00 ¹
125,405.47	578.56	125,984.03	J. Horace Cook Fund	\$ 1,317.77	15,061.70		5,800.91
345,000.00		345,000.00	The Ford Foundation Endowment Fund		16,189.04	16,189.04	
214,000.00		214,000.00	The Ford Foundation Accomplishment Fund		10,056.28	10,056.28	
12,426.18		12,426.18	Thomas H. Haines & Helen H. Haines Fund		591.82	591.82	
10,000.00		10,000.00	Emily Bishop Harvey Fund		460.10	460.10	
7,577.50	1,355.00	8,932.50	Class of 1933 - 25th Anniversary Fund		396.69	396.69	
35,000.00	828.17	35,828.17	John E. Hume Fund		1,440.01	1,440.01	
10,000.00		10,000.00	Frederic H. Strawbridge Fund		404.58	404.58	
1,000.00	515.00	1,515.00	Archibald MacIntosh Endowment Fund	45.55	52.88		98.43
179,610.45	5,499.70	185,110.15	The William H. Collins Fund		7,534.39	7,534.39	
25,000.00		25,000.00	Mary Frances Nunnis Fund		1,300.25	1,300.25	
346,106.56		346,106.56	Eli Nichols Fund		6,699.73	6,699.73	
25,000.00		25,000.00	William Gibbons Rhoads Fund		83.33		83.33
\$6,280,820.35	\$445,397.75	\$6,735,218.10		\$ 1,363.32	\$448,258.66	\$56,379.96	\$ 5,982.67
FUNDS FOR WISTAR BROWN GRADUATE SCHOOL							
			Moses Brown Fund				{ \$ 2,522.20 ¹
					\$ 27,084.60	\$ 21,853.94	{ 2,708.46 ⁴
					\$ 27,084.60	\$ 21,853.94	{ \$ 5,230.66
FUNDS FOR MORRIS INFIRMARY							
			Infirmary Endowment Fund		865.62	865.62	
			John W. Pinkham Fund		471.39	471.39	
					\$ 1,337.01	\$ 1,337.01	

FUND FOR WISTAR BROWN GRADUATE SCHOOL

\$ 27,084.60	\$ 21,853.94	{ \$ 2,522.20 ¹
<u>\$ 27,084.60</u>	<u>\$ 21,853.94</u>	{ 2,708.46 ⁴
		\$ 5,230.66

FUNDUS FOR MORRIS INFIRMARY

FUNDS FOR MORRIS INFIRMARY	
Infirmary Endowment Fund	865.62
John W. Pinkham Fund	471.39
	\$ 1,337.01
	\$ 1,337.01

PRINCIPAL		INCOME		Cr. Balance 8/31/61
Book Value 9/1/60	Increase 8/31/61	Book Value 9/1/60	Net Income	
\$	\$	\$	\$	Special
FUND FOR HAVERFORD UNION				
Haverford Union Fund	1,878.82		101.62	101.62
FUND FOR SCHOLARSHIPS				
Thomas P. Cope Fund	5,257.82	437.60	481.74	\$ 800.00 ¹ \$ 119.34
Edward Yarnall Fund	6,069.23	448.60	462.92	800.00 ¹ 111.52
Isaiah V. Williamson Fund	19,817.40	407.77	1,116.84	1,250.00 ¹ 274.61
Richard T. Jones Scholarship Fund	5,056.25	508.18	509.02	900.00 ¹ 117.20
Mary M. Johnson Scholarship Fund	7,013.61	391.18	534.43	820.24 ¹ 105.37
Sarah Marshall Scholarship Fund	7,919.76	550.37	667.09	1,079.76 ¹ 137.70
Clementine Cope Fellowship Fund	22,845.86	4,039.11	1,441.45	1,650.00 ¹ 3,830.56
Isaac Thorne Johnson Scholarship Fund	10,202.21	-220.87	439.40	{ 100.00 ¹
Caspar Wistar Memorial Scholarship Fund	7,434.26	415.86	560.21	{ 118.53 ⁴
J. Kennedy Moorhouse Scholarship Fund	5,155.85	432.98	497.73	{ 800.00 ¹ 176.07
Louis Jaquette Palmer Scholarship Fund	15,109.13	1,035.69	1,036.30	800.00 ¹ 130.71
Paul W. Newhall Mem'l Scholarship Fund	5,045.60	288.44	392.35	1,700.00 ¹ 371.99
Robert Martin Zuckert Mem'l Sch. Fund	22,250.00	1,894.51	2,045.51	800.00 ¹ -119.21
Samuel E. Hilles Scholarship Fund	5,017.31	209.97	337.78	3,425.00 ¹ 515.02
Class of 1913 Scholarship Fund	3,000.00	265.19	282.27	400.00 ¹ 147.75
Class of 1917 Scholarship Fund	11,200.00	920.46	837.40	400.00 ¹ 147.46
Daniel B. Smith Fund	10,000.00	877.31	700.03	1,500.00 ¹ 257.86
Sarah Tatum Hilles Mem'l Scholarship Fund	75,534.58	6,978.29	7,106.58	1,400.00 ¹ 177.34
Elihu Grant Memorial Scholarship Fund	40,275.01	2,724.07	3,295.01	12,500.00 ¹ 1,584.87
Christian Febiger Mem'l Scholarship Fund	17,050.00	1,308.11	1,487.55	5,250.00 ¹ 769.08
Joseph L. Markley Mem'l Scholarship Fund	5,000.00	440.41	470.45	2,425.00 ¹ 370.66
Joseph C. & Anne N. Birdsall Schol. Fund	30,000.00	1,825.16	2,357.88	800.00 ¹ 110.86
Daniel E. Davis, Jr. Mem'l Scholarship Fund	3,000.00	184.79	239.93	3,700.00 ¹ 483.04
Jonathan M. Steere Scholarship Fund	20,000.00	1,038.52	1,144.13	350.00 ¹ 74.72
William Graham Tyler Mem'l Schol. Fund	15,000.00	773.05	1,119.66	1,600.00 ¹ 582.65
1890 Memorial Scholarship Fund	2,700.00	163.48	198.53	1,600.00 ¹ 292.71
1949 Campaign Scholarship Fund	50,082.18	720.42	3,192.46	200.00 ¹ 162.01
Max Leuchter Scholarship Fund	15,703.13	-0-	920.35	{ 3,400.00 ¹ 193.63
A. Clement Wild Scholarship Fund	25,000.00	416.36	1,458.39	{ 319.25 ⁴
Caroline Chase Scholarship Fund	6,245.11	192.33	398.00	{ 500.00 ¹ -0-
Forward	\$ 471,414.12	\$ 2,570.18	\$ 35,731.39	{ 420.35 ⁴
		\$29,667.34	\$ 35,731.39	{ 1,600.00 ¹ 274.75
				{ 500.00 ¹ 90.33
				\$53,908.13 \$11,490.60

PRINCIPAL			INCOME		
Book Value 9/1/60	Increase 8/31/61	Book Value 8/31/61	Balance 9/1/60	Net Income	Cr. Balance 8/31/61
471,414.12	2,570.18	473,984.30	29,667.34	35,731.39	53,908.13
5,000.00		5,000.00	193.20	330.25	523.45
6,000.00		6,000.00	159.97	338.72	98.69
10,000.00		10,000.00	681.38	461.98	143.36
5,000.00	1,000.00	6,000.00	629.99	236.84	866.83
12,575.00		12,575.00	222.58	591.82	114.40
1,500.00	500.00	2,000.00	55.43	76.37	131.80
5,465.98	5,465.98	5,465.98			
\$ 511,489.12	\$ 9,536.16	\$ 521,025.28	\$31,609.89	\$ 37,767.37	\$56,008.13
					\$13,369.13
FUNDS FOR THE LIBRARY					
\$ 17,435.06	\$ 31.87	\$ 17,435.06	\$ 1,127.19	\$ 1,127.19	\$ 4,833.50 ⁸
68,238.12		68,269.99		4,865.37	31,874
5,000.00		5,000.00	\$ 174.58	87.50	137,045
20,306.74		20,306.74	3,627.06	1,575.06	\$ 125.04
173,078.14		173,078.14		15,709.18	5,202.12
635.47		635.47			3,000.00 ⁸
1,002.34		1,002.34	69.16	56.45	61.54
6,550.00		6,550.00	151.25	94.09	160.91
1,253.52		1,253.52	1,858.82	616.29	2,475.11
600.00		600.00	489.88	117.61	607.49
1,500.00		1,500.00	117.91	56.45	150.00 ⁸
5,000.00		5,000.00	884.15	121.38	82,945
			3,054.62	405.53	157,688
36,912.36	238.23	\$7,150.59	500.27	2,382.35	\$ 3,302.47
1,485.00	626.47	2,111.47			{ 1,192.98 ⁸
	1,000.00	1,000.00	13.73	73.61	{ 238.234
				6.67	1,451.41
\$ 338,996.75	\$ 1,896.57	\$ 340,893.32	\$10,941.43	\$ 27,294.73	\$ 9,972.74
					\$14,427.05
FUNDS FOR OLD STYLE PENSIONS					
\$ 41,237.08	\$	\$ 41,237.08	\$	\$ 3,579.16	\$ 3,579.16
36,758.66		36,758.66		3,492.60	3,492.60
68,113.78		68,113.78		4,636.73	4,636.73
3,272.24		3,272.24		293.56	293.56
112,040.73	\$-7,325.00	104,715.73		9,459.76	9,459.76
\$ 261,422.49	\$-7,325.00	\$ 254,097.49	\$ 21,461.81	\$ 21,461.81	\$ 21,461.81

PRINCIPAL		Book Value 9/1/60	Book Value 8/31/61	FUNDS FOR SPECIAL PURPOSES				Net Income	INCOME		Cr. Balance 8/31/61
Book Value	Increase								Expended	Special	
\$		\$	\$						\$		\$
5,248.00		5,248.00		Thomas Shipley Fund		\$ 149.78	\$	493.03		\$37.10 ⁶	305.71
1,126.75		1,126.75		Elliston P. Morris Fund		21		22.58		22.00 ⁵	.79
4,197.87		4,197.87		John B. Garrett Reading Prize Fund		466.34		290.74		75.00 ²	682.08
9,227.07		9,227.07		Special Endowment Fund		1,988.82		594.65		403.25 ⁹	2,180.22
2,296.88		2,296.88		Scholarship Improvement Prize Fund		808.07		225.81		95.00 ²	938.88
1,727.00		1,727.00		Elizabeth P. Smith Fund		1,804.44		162.77		150.00 ²	1,817.21
2,546.88		2,546.88		S. P. Lippincott History Prize Fund		30.23		254.04		{ 100.00 ²	
5,120.30		5,120.30		Francis Stokes Fund		306.67		481.74		{ 180.00 ⁵	4.27
4,575.50	\$ 292.49	4,867.99		George Peirce Prize Fund				342.49		{ 648.05 ⁸	140.56
2,155.00		2,155.00		Lynan Beecher Hall Prize Fund		985.42		207.94		{ 50.00 ²	
1,397.75		1,397.75		Newton Prize Fund		23.28		276.62		{ 292.49 ⁴	
2,400.00		2,400.00		Edward B. Conklin Athletic Fund				183.47	183.47	{ 200.00 ²	993.36
14,362.75		14,362.75		Edward Woolman Arboretum Fund		-164.27		974.77		{ 50.00 ²	1.70
2,000.00		2,000.00		William Ellis Skull Prize Fund		1,315.52		188.18		{ 200.00 ²	1,453.70
1,000.00		1,000.00		Paul D. I. Maier Fund				94.09	74.09	{ 200.00 ⁵	49.90
3,839.54		3,839.54		Strawbridge Observatory Maintenance Fund		291.02		190.65		{ 458.85 ⁹	383.18
7,361.59	28.55	7,390.14		Jacob & Eugenie Bucky Mem'l Foundation				360.36		{ 504.94 ¹⁰	
1,745.40	78.37	1,823.77		Mathematics Department Prize Fund				533.49		{ 28.55 ⁴	
2,491.50		2,491.50		William T. Elkinton Fund		1,008.27		237.37		{ 59.00 ²	
7,000.00		7,000.00		Tilney Memorial Fund		-225.26		193.28		{ 78.37 ⁴	1,228.76
142.90		142.90		Class of 1902 Latin Prize Fund		39.82		600.29		{ 13.79 ¹¹	375.03
6,315.00		6,315.00		Edmund J. Lee Memorial Award Fund		897.75		13.17		{ 10.00 ²	42.99
1,006.50		1,006.50		David R. Bowen Memorial Fund		227.42		502.44		{ 50.00 ²	892.99
902.55		902.55		Jonathan & Rachel Cope Evans Fund		374.44		79.98		{ 257.40	257.40
15,043.62		15,043.62		Edward Hawkins Memorial Fund		24.46		49.87		{ 494.31	494.31
1,457.44		1,457.44		William W. Baker Prize Fund		17.47		937.13	468.56	{ 450.00 ¹	43.03
500.00		500.00		John G. Wallace Award Fund		90.89		95.97		{ 90.00 ¹²	23.44
4,000.00		4,000.00		Christian Religion and Thought Fund		-17.23		28.23		{ 25.00 ²	94.12
2,784.38		2,784.38		The Kurzman Prize Fund		416.81		7.53		{ 11.80 ²	-21.50
	399.41					-32.07		183.47		{ 600.28	600.28
\$ 114,172.17	\$	\$ 114,571.58						112.91		{ 80.84	80.84
						\$10,828.30	\$	8,860.06	\$ 726.12	\$	\$12,995.05

REPORT ON NON-CONSOLIDATED FUNDS

PRINCIPAL			Balance 9/1/60	Net Income	INCOME		Cr. Balance 8/31/61
Book Value 9/1/60	Increase	Book Value 8/31/61			Expended	Special	
\$ 31,741.22		\$ 31,741.22		\$ 1,531.26	\$ 1,531.26		
-0-		-0-		176.21	176.21		
-0-		-0-		1,625.40	1,625.40		
-0-		-0-		2,845.47	2,845.47		
						{ 980.0013	
25,281.18	\$ 457.11	25,738.29		1,424.61		{ 444.614	
65,292.69		65,292.69	522.08	2,730.00		2,647.5013	604.58
2,434,480.58	51,486.12	2,485,966.70		133,840.19			
\$2,556,795.67	\$ 51,943.23	\$2,608,738.90			66,917.10		
						{ 20,644.565	
						16,109.0414	
						11,531.2716	55,412.08
			\$37,295.94	\$144,173.14	\$ 73,095.44	\$52,356.98	\$56,016.66

NOTE: Key to Figures

1. Scholarships
2. Prizes
3. Loan Fund
4. Income to Principal
5. Books & Library
6. Lectures
7. Religious Education Committee
8. Plants & Services
9. Equipment & Expenses
10. Work Camp Fees & Expenses
11. Travel
12. Physical Education
13. Annuities
14. Visitors
15. Miscellaneous

SUMMARY OF CONSOLIDATED AND NON-CONSOLIDATED FUNDS

	Book Value 9/1/60	Increased	Decreased	Book Value 8/31/61	Net Income
Funds for General Purposes	\$ 6,289,820.35	\$445,397.75		\$ 6,735,218.10	\$448,258.66
Funds for T. Wistar Brown	389,733.83	2,708.46		392,442.29	27,084.60
Funds for Morris Infirmary	14,712.94			14,712.94	1,337.01
Funds for Haverford Union	1,878.82			1,878.82	101.62
Funds for Scholarships	511,489.12	9,536.16		521,025.28	37,767.37
Funds for Library	338,996.75	1,896.57		340,893.32	27,294.73
Funds for Old Style Pensions	261,422.49		\$7,325.00	254,097.49	21,461.81
Funds for Special Purposes	114,172.17	399.41		114,571.58	8,860.06
Gains	1,337,686.72	281,136.35		1,618,823.07	
Total Consolidated Funds	\$ 9,259,913.19	\$741,074.70	\$7,325.00	\$ 9,993,662.89	\$572,165.86
Total Non-Consolidated Funds	2,556,795.67	51,943.23		2,608,738.90	144,173.14
Total Funds	\$11,816,708.86	\$793,017.93	\$7,325.00	\$12,602,401.79	\$716,339.00

NET INCREASES IN CONSOLIDATED AND NON-CONSOLIDATED FUNDS

The Book Value increased \$793,017.93 as follows:

Donations for additions to Funds	\$451,462.29
Income transferred to Principal	8,920.67
Net gains on securities sold or called:	
Consolidated Investments	281,136.35
Wm. Pyle Phillips Investments	51,486.12
A. T. Murray Research Scholarship Fund	12.50
	<u>\$793,017.93</u>

INCOME RETURN: The net income return after allowing custodian fees to our fiscal agent was 5.9% on book value and 3.8% on market value of Consolidated Investments at end of fiscal year. (Does not include College Real Estate.)

DONATIONS FOR ADDITIONS TO FUNDS

<i>Morris E. Leeds Fund</i>		
Replacement from Henry C. Brown Trust-Principal for Building Program—Field House and Dormitory		\$ 60,272.34
<i>Gilbert C. Fry Fund</i>		
Gift of Gilbert C. Fry		1,581.02
<i>Class of 1933—25th Anniversary Fund</i>		
Additional gifts received through College		1,355.00
<i>John E. Hume Fund</i>		
Refund of inheritance tax		828.17
<i>Archibald MacIntosh Endowment Fund</i>		
Gifts of: Dr. Gilbert H. Marquardt	\$500.00	
Dr. John F. Marquardt	<u>15.00</u>	515.00
<i>The William H. Collins Fund</i>		
Final payment on Julia Cope Collins Estate		5,499.70
<i>Eli Nichols Fund</i>		
Bequest of Eli Nichols		346,106.56
<i>William Gibbons Rhoads Fund</i>		
Legacy of William Gibbons Rhoads		25,000.00
<i>Caspar Wistar Memorial Scholarship Fund</i>		
Gift of Raquelita Wistar		483.05
<i>Louis Jaquette Palmer Scholarship Fund</i>		
Gift of: Triangle Society	529.00	
Russel G. Allen	<u>200.00</u>	729.00
<i>Max Leuchter Scholarship Fund</i>		
Gift of Mrs. Max Leuchter		500.00
<i>The Summerfield Foundation Scholarship Fund</i>		
Additional gift		1,000.00
<i>Rufus Matthew Jones Scholarship Fund</i>		
Gift of Clarence E. Tobias, Jr.		500.00
<i>Clinton P. Knight, Jr. New England Scholarship Fund</i>		
Received from Haverford Society of New England		5,465.98
<i>Class of 1909—Rufus M. Jones Memorial Library Fund</i>		
Additional gifts received through College		626.47
<i>Rayner W. Kelsey Fund</i>		
Gift of Mrs. Rayner W. Kelsey		1,000.00
Total for Additions to Funds		<u><u>\$451,462.29</u></u>

SUBSCRIPTIONS TO THE HAVERFORD COLLEGE DEVELOPMENT PROGRAM

Alumni Contributors

1886

In Memory of
Israel Morris, Jr.* and
William P. Morris*

1892

Walter M. Hart
Arthur Hoopes
Stanley R. Yarnall

\$3,250.00

1894

Henry S. Conard
Clifford B. Farr

\$ 130.00

1896

In Memory of
George R. Allen*

1897

Charles H. Howson
Edward Thomas

\$ 510.00

1898

Vincent Gilpin
In Memory of
Morris M. Lee*
Francis R. Strawbridge
In Memory of
Alfred Scattergood*

\$6,450.00

1899

William A. Battey
(Deceased)
Edward H. Lycett, Jr.
Louis R. Wilson

\$1,055.00

1900

Charles J. Allen
Francis R. Cope, Jr.
Henry S. Drinker
Frederic C. Sharpless
Abram G. Tatnall
(Deceased)
Edward B. Taylor, Jr.

\$3,832.50

1901

Charles F. Allen
Ellis Y. Brown, Jr.
William E. Cadbury
Lovett Dewees
J. Leiper Winslow

\$ 665.00

1902

C. Reed Cary
Edward W. Evans
Richard M. Gummere
William C. Longstreth
Dr. & Mrs. Percival
Nicholson
Robert J. Ross
Edgar E. Trout

\$4,371.01

1903

Henry J. Cadbury
Hervey M. Hoskins

\$ 130.00

1904

Howard H. Brinton
John W. Charles
Chester R. Haig
Bernard Lester
C. Christopher Morris
Harold H. Morris
C. Raymond Owen
Harold M. Schabacker
James M. Stokes
John R. Thomas
E. Porter West
Samuel C. Withers

\$7,855.00

1905

Thomas M. Bales
Charles S. Bushnell
Arthur H. Hopkins
Paul Jones
Glyndon Priestman
William J. Reagan
Elias Ritts
Sigmund Spaeth
Herman K. Stein
Chester J. Teller

\$33,942.50

* These gifts are included under "Non-Alumni Friends of the College."

1906

Gordon H. Graves
 Jackson Maloney
 Francis B. Morris
 Albert K. Smiley
 John A. Stratton
 Joseph J. Tunney
\$ 910.00

1907

Richard Cadbury
 Walter L. Croll
 Harold Evans
 Samuel J. Gummere
 Wilbur H. Haines
 Lee E. Hood (*Deceased*)
 Ernest F. Jones
 James P. Magill
 Alfred B. Morton
 Jose Padin
 C. Clayton Terrell
 W. Butler Windle
 In Memory of
 Alexander N. Warner*
\$37,404.50

1908

Carroll T. Brown
 Dudley DeW. Carroll
 J. Browning Clement, Jr.
 Thomas C. Desmond
 Edward A. Edwards
 Thomas R. Hill
 W. Wesley Kurtz
 M. Albert Linton
 T. Morris Longstreth
 W. Haviland Morriss
 (*Deceased*)
 Loren C. Petry
 Walter R. Shoemaker
 Walter W. Whitson
 Raymond C. Woodard
\$7,305.00

1909

Percival B. Fay
 William S. Febiger
 Allan J. Hill
 Sidney Loewenstein
 Charles G. Martinson
 Joseph W. Pennypacker
 Frank McC. Ramsey
 J. Warrington Stokes
 Robert L. M. Underhill
 William W. Warner
\$1,960.00

1910

E. Page Allinson
 Earleham Bryant
 Earl S. Cadbury
 H. Ernest Crow
 Harold A. Furness
 Harrison S. Hires
 John D. Kenderdine
 George A. Kerbaugh
 Henry C. Lewis
 Clayton W. Mayers
 Walter Palmer
 Charles S. Ristine
 Willard P. Tomlinson
\$18,777.50

1911

James Ashbrook
 Henry S. Bernard
 Daniel B. Boyer
 John S. Bradway
 Philip B. Deane
 John S. Downing
 Benjamin Farquhar
 In Memory of
 Henry Ferris, Jr.
 William D. Hartshorne, Jr.
 Richard J. M. Hobbs
 L. Arnold Post
 Joseph H. Price
 D. Duer Reynolds
 Victor Schoepperle
 Lucius R. Shero
 Gibson Smith
 Howard G. Taylor
 Walter Tebbetts
 Charles Wadsworth
 Caleb Winslow
 Harold Worthington
 Alan S. Young
 Wilmer J. Young
\$7,290.00**

1912

Stacey K. Beebe
 Douglas P. Falconer
 Leslie W. Ferris
 C. Merle Hunt
 Herbert M. Lowry
 Robert E. Miller
 Irvin C. Poley
 Kenneth A. Rhoad
 Leonard C. Ritts
 Thomas E. Shipley
 Lloyd M. Smith

* This gift is included under "Non-Alumni Friends of the College."
 ** \$6,085 was contributed to the 50th Reunion Gift.

1912 (Cont.)

Samuel B. Sturgis
Henry M. Thomas, Jr.
Edward Wallerstein

\$21,610.00**1913**

Paul H. Brown
William S. Crowder
Frederick A. Curtis
Francis H. Diamant
Norris F. Hall
Charles E. Hires, Jr.
Elisha T. Kirk
Stephen W. Meader
Herbert V. Nicholson
John V. Van Sickle
William Webb
Edwards F. Winslow
George L. Winslow

\$5,003.50**1914**

Jules S. Bentley
Carroll D. Champlin
George V. Downing
C. Willis Edgerton
Alfred W. Elkinton
Thomas W. Elkinton
Joseph C. Ferguson
Lewis J. Finestone
Edward M. Jones
Harold M. Lane
Robert A. Locke
Harold S. Miller
Douglas L. Parker
Herbert W. Seckel
Robert C. Smith
S. Emlen Stokes
Francis C. Stokes
John A. Stout
Leonard V. H. Thomas
Thomas Tomlinson
Charles K. Trueblood
Douglas Waples
Charles R. Williams

\$219,433.33**1915**

Percival R. Allen
G. Cheston Carey
George Hallett, Jr.
Harold W. Helveston
Thomas Hoopes, Jr.
Hubert A. Howson

1915 (Cont.)

Joseph McNeill
Felix M. Morley
Walter E. Vail
Ernest N. Votaw

\$3,510.00**1916**

Frederick C. Buffum, Jr.
Frank W. Cary
J. Arthur Cooper
George A. Dunlap
James S. Ellison
William T. Hannum
H. Alden Johnson
Raymond C. Kendig
John Kuhns
John G. Love, Jr.
Edward F. Lukens
William L. Martwick
Edward R. Moon
Charles H. Oberholtzer
Joseph Stokes, Jr.

\$10,012.00**1917**

Ernest L. Brown
J. Warren Burkett
John Howard Buzby
William H. Chamberlin
Donald Chandler
Loring Dam
Jesse G. Forsythe
Joseph W. Greene, Jr.
Albert W. Hall
Weston Howland
M. Alexander Laverty
W. Clark Little
Hugh E. McKinstry (*Deceased*)
Arthur H. Napier
Wendell D. Schoch
John W. Spaeth, Jr.
Arthur E. Spellissy
J. Clayton Strawbridge
Edward M. Weston
Harold Q. York

\$10,470.63**1918**

John W. Alexander
Robert Barrie
Bennett S. Cooper
J. Marshall Crosman
Stephen Curtis
Frank Deacon
Alfred H. Dewees

1918 (Cont.)

Neil Gilmour
 Robert B. Greer
 Henry M. Hallett, II
 William H. Harding
 Joseph M. Hayman, Jr.
 John A. Hisey
 Malcolm D. Kerbaugh
 Henry W. Koons
 Louis C. O. Lusson
 William M. Mussetter
 Herbert J. Painter
 Edward A. G. Porter
 Joseph W. Sharp, III
 John W. Thacher
 Percy S. Thornton
 Albert H. Tomlinson
 Alfred J. Townsend

\$4,360.00**1919**

John Barlow
 Hudson Chapman
 William F. Hastings
 John S. Haynes
 George H. Hubler
 Thomas McConnell, III
 A. Douglas Oliver
 Walter Penn Shipley, Jr.
 Frederick Strawbridge, Jr.
 H. Dana Taylor

\$1,931.00**1920**

Truxton B. Brodhead
 Frank L. Campbell
 Lucius W. Elder, Jr.
 Pierson Harris
 Milton A. Kamsler
 A. Douglas Knowlton
 Francis S. Silver
 Edward L. Smith, Jr.
 Henry R. Tatnall
 Granville E. Toogood
 John S. Williams
 Richard R. Wood
 Granville Worrell, II

\$7,693.75**1921**

Robert Atkinson
 Jervis J. Babb
 Thomas B. Barlow
 Elliot W. Brown
 Melvin A. Cawl
 Peter Donchian
 Cornell M. Dowlin

1921 (Cont.)

S. Newcomb Ewan, Jr.
 Raymond C. Hacker
 Edward C. Haines
 Eugene B. Heilman
 John R. Hoopes
 William T. Jebb
 J. Barclay Jones
 Henry W. Kumm
 Julian S. Long
 John MacAdam
 Archibald MacIntosh
 Warren S. McCullough
 John D. Miller
 Raymond T. Ohl
 A. Arthur Powell
 Hubert T. Richardson
 C. Wilbur Ufford
 Benjamin B. Weatherby, II
 Robert N. Wood

\$21,855.38**1922**

Noel Arrowsmith
 John B. Barker
 John F. Gummere
 George A. Hilleman
 Richard W. Janney
 Robert R. Matzke
 Delaplaine McDaniel
 Frederick S. Miller (*Deceased*)
 Elliston P. Morris
 Harry W. Pfund
 William L. Rhoads, Jr.
 Richard M. Sutton
 Edward A. Taylor
 Kenneth B. Walton
 Malcolm R. Wise
 J. Colvin Wright
 Edwin W. Zerrer

\$4,163.00**1923**

Russel G. Allen
 John C. Borton
 H. Tatnall Brown, Jr.
 Joseph Z. C. Chapman
 Frank P. Flint
 G. Randle Grimes
 E. Kenneth Haviland
 C. Dixon Heyer
 Garrett S. Hoag
 George C. Huffman
 Gilbert C. Fry
 Wilmot R. Jones
 S. Brooks Knowlton

1923 (Cont.)

Robert W. Leeds
 Andrew L. Lewis
 Thomas M. Logan
 Thomas Parke
 Dudley McC. Pruitt
 Robert Schultz
 Benjamin Shoemaker, III
 John B. Stevenson
 Gordon W. Strawbridge
 Alfred L. Test
 Robert Waln
 Charles Warner, Jr.
 Nelson A. White

\$11,947.48

1924

Charles F. Bader, Jr.
 Courtland B. Brinton
 Hugh P. Brinton
 J. Stanton Carson
 Charles H. Frazier
 Harold D. Greenwell
 Gaylord P. Harnwell
 Paul R. Haviland
 John F. Headly
 Howard J. Hogenauer
 Morris W. Mead, Jr.
 Arthur Mullin
 Charles E. Nash
 Edward B. Patterson
 Philip G. Rhoads
 John F. Rich
 En Shui Tai
 Lawrence N. Taylor
 W. Wyclif Walton
 W. Nelson West, III
 Donald E. Wilbur

\$24,454.50

1925

Conrad B. Acton
 Eric G. Ball
 Robert C. Bates
 Wray D. Bentley
 Geoffroy Billo
 Leigh E. Chadwick
 Douglass W. Eiseman
 John A. Eiseman
 Edward L. Gordy
 C. William Haines
 In Memory of
 J. S. Curtis Harvey, Jr.
 H. Richard Heilman
 William E. Hinrichs
 Irving Hollingshead

1925 (Cont.)

Henry F. House
 Ames Johnston
 Karl G. Kumm
 Hugh Montgomery
 Warren W. Newman
 Jesse T. Nicholson
 Owen B. Rhoads
 Albert E. Savage
 John L. Schulze, Jr.
 C. Coleman Sellers
 John A. Silver
 Francis M. Stifler
 Henry H. Strong
 Benjamin B. Warfield
 Austin Wright
 Harman A. Yerkes

\$13,356.00

1926

Hugh Borton
 Alfred E. Buck
 Francis F. Campbell
 Alexander R. Carman, Jr.
 Franklin O. Curtis
 Henry C. Evans
 Allan Gilmour
 Murray C. Haines
 Robert L. Haines
 Edmund P. Hannum
 Siddons Harper, Jr.
 Robert L. Hatcher
 Harris G. Haviland
 Wayne G. Jackson
 J. Dean Joly
 Victor A. Lamberti
 Winthrop M. Leeds
 Daniel C. Lewis, Jr.
 Benjamin H. Lowry
 Willard E. Mead
 Merle M. Miller
 Fred Rodell
 Charles T. Sumwalt
 Charles R. Tatnall
 Joseph A. Vansant

\$21,107.75

1927

Samuel A. Armstrong
 Harold E. Bates
 M. Ward Bayles
 Charles A. Clement
 Herman E. Compter
 Daniel M. Cox
 Leopold S. David
 Natt M. Emery, Jr.

1927 (Cont.)

Allan B. Fay
 John E. Forsythe
 Albert V. Fowler
 J. Richard Gott, Jr.
 William O. Grover
 John L. Heller
 John H. Hoag
 Alexander R. Middleton
 Paul W. Ohl
 Allen G. Powell
 S. Stansfeld Sargent
 Watson Scarborough
 Arthur W. Silver
 Charles R. Thompson
 W. Burr Totten

\$4,807.50**1928**

Carl F. Berlinger
 Richard C. Bull
 Frederick M. Burgess
 Leslie A. Cretty
 Royal S. Davis
 John T. Evans
 C. Keely Fox
 Arthur B. Hallock, Jr.
 Theodore B. Hetzel
 Richard L. Hillier
 Allen F. Horton
 J. McLain King
 John S. McConaghy
 Michael McEntee
 Oliver W. Melchior
 James E. Mitchell
 S. Burkhart Morrison
 Henry S. Murphey
 Alexander L. Nichols
 Eric H. Renwick
 Jonathan E. Rhoads
 Ingram H. Richardson
 Louis F. Richter
 Charles A. Robinson
 Franklin W. Smith
 J. Tyson Stokes
 Charles M. Tatum
 Allen C. Thomas
 Thomas S. Whiting
 Theodore Whittelsey, Jr.
 Bernard Wistar

\$36,745.00**1929**

Frank K. Briggs
 Roger C. Brown
 Henry J. Chapin
 Charles H. Collison

1929 (Cont.)

John R. Cooper
 Carroll L. Corson
 F. Curtis Dohan
 James G. Downward
 Nathan T. Folwell, Jr.
 John P. Fox
 George S. Garrett
 Thomas C. Gawthrop, II
 Charles M. Hamilton
 Everett H. Hemphill
 George W. Johnson
 Kenneth E. Kingham
 William S. Lane
 Davis D. Lewis
 James S. Maier
 Alfred Mellor
 J. Hamor Michener
 Gerald F. Rorer
 J. Clifford Scott
 Francis W. Sharpless
 Walter Sondheim, Jr.
 James M. Standring, Jr.
 Robert C. Sullivan
 Daniel D. Test, Jr.
 Harold L. Wilt
 F. Howell Wright

\$12,921.88**1930**

Bradford S. Abernathy
 John L. Blackman, Jr.
 B. Franklin Blair
 Richardson Blair
 Roger L. Bloom
 Arthur H. Brinton
 James Brown, IV
 T. Ward Bruegel
 Lincoln C. Cocheu
 Frederic A. Egmore
 Theodore Evans
 Willem Ezerman
 John T. Feidt
 William D. Frazier
 W. Clark Hanna
 Frank W. Lindsay
 Joseph W. Martin
 William M. Masland
 Charles W. Miller, Jr.
 Joseph L. Miller
 Brewster H. Morris
 J. Howard Morris, Jr.
 Theodore H. Morris, III
 Martin I. Norr
 Robert M. Olton
 Edwad Rosewater
 Harlow B. Rowell

1930 (Cont.)

Newman S. Shirk
 David K. Spelt
 John F. Stone
 Frederick W. Swan
 George Vaux
 Thomas Wistar, Jr.
 Thomas Wriggins, Jr.

\$12,608.13**1931**

John W. Blyth
 Richard D. Browne
 Thomas E. Burns, Jr.
 J. George Butler
 William E. Cadbury, Jr.
 S. Hall Conn
 Alfred R. Crawford
 Kenneth H. Egoft
 F. W. Elliott Farr
 Robert L. Farr
 Robert W. Gabriel
 John T. Golding
 John D. Gresimer
 Thomas B. Harvey
 James M. Houston
 William Morris Maier
 Adrian S. Mann
 Lauman Martin
 Richard L. Masland
 Raymond E. Maxwell
 Arthur J. Mekeel
 Frederick W. G. Peck
 Charles S. Pennypacker
 Herbert W. Reisner
 Fred M. Richardson
 Ira Leo Schamberg
 Ernest A. Schlipp
 Harris P. Shane
 Edwin A. Speakman
 Frank N. Speller, Jr.
 Walter M. Teller
 James E. Walmsley
 Nathaniel Weyl
 John H. Wills
 Evan M. Wilson

\$13,468.50**1932**

Carl B. Allendoerfer
 Howland H. Bailey
 Walter C. Baker
 Joseph M. Cadbury
 John W. Conner, Jr.
 Gilbert David
 J. Russell Elkinton
 Harry Fields

1932 (Cont.)

Gifford P. Foley
 William T. R. Fox
 Herbert S. Gaskill
 F. Barton Gummere, III
 C. Robert Haines
 Joseph N. Hartel
 Sydney A. Hunt
 H. Gifford Irion
 Lewis L. Kohn
 Albert H. Kretschmer, Jr.
 Ellis C. Osgood
 William W. Pusey, III
 Joseph Rhoads
 Arthur S. Roberts
 John W. Settle, Jr.
 William V. Sipple, Jr.
 Albert K. Smiley, Jr.
 Charles S. Strickler
 A. Craig Succop
 William D. Wray
 John A. Zapp, Jr.

\$22,090.00**1933**

E. Theodore Bachmann
 Clarence P. Baker
 Edmund A. Carr
 Herbert T. Clough
 Horace K. Dugdale, Jr.
 Franklin K. Fite
 Frederick L. Fuges
 Charles S. Jacobs
 Bernard V. Lentz
 John W. Masland
 John F. McMahon
 Edward A. Moos
 H. Pierce Pelouze, Jr.
 William H. Russell
 John R. Sargent
 Henry W. Scarborough, Jr.
 Alfred G. Scattergood, II
 Henry Scattergood
 Wilbert B. Smith, Jr.
 James N. Stanton, Jr.
 William H. Stokes
 Phillips S. Trenbath
 Frederick A.
 Van Denbergh, Jr.
 Henry J. Vaux
 Thomas R. White, Jr.
 David L. Wilson

\$12,597.13

1934

Lewis H. Bowen
 Thomas S. Brown
 John L. Dusseau
 Louis W. Flaccus, Jr.
 J. Morton Fultz, Jr.
 Leonard L. Greif, Jr.
 John L. Gross, Jr.
 J. Ogden Hancock
 Edward M. Hendrickson
 Eugene F. Hogenauer
 Ray B. Houston
 J. Douglas Lockard
 Benjamin S. Loewenstein
 David G. Loomis
 William F. Maxfield
 Asa W. Potts
 Roger Scattergood
 William W. Smith
 Matt W. Stanley
 Francis W. Stork
 Edwin C. White
 Willard M. Wright, Jr.

\$10,661.25**1935**

H. Hayes Aikens, Jr.
 Howard S. Bevan, Jr.
 Clifton McC. Bockstoe
 Paul W. Brown, Jr.
 William Butler, III
 Woodruff J. Emlen
 Joseph Haywood
 Richard W. Hires
 James B. Kase
 E. Charles Kunkle
 E. Wayne Marshall
 Edward H. McGinley
 W. Harrison Mechling
 Allen R. Memhard, Jr.
 Vincent P. Morgan
 Samuel Potter, Jr.
 John B. Rhoads
 Russell W. Richie
 Graham Rohrer
 Charles F. G. Smith
 Martin P. Snyder
 F. Joseph Stokes, Jr.
 Richard M. Suffern
 Robert P. Wills
 Alexander C. Wood, III

\$16,195.00**1936**

E. Dale Adkins, Jr.
 Richard L. Barrows, Jr.
 Thomas R. Bevan

1936 (Cont.)

George B. Bookman
 Robert Braucher
 Donald W. Brous
 Jonathan A. Brown
 Thomas D. Brown
 William A. Crawford
 Ellis I. Curley
 David C. Elkinton
 Francis C. Evans
 Grant C. Fraser
 William R. Fry
 Robert S. Gawthrop, Jr.
 John N. Goodridge
 Henry S. Huntington, III
 Robert M. Hutchinson
 Arthur R. Kane, Jr.
 Samuel Kind
 Howard T. Lodge, Jr.
 William H. Loesche, Jr.
 William A. Macan, III
 David K. Maxfield
 David P. McCune, Jr.
 Samuel S. McNeary
 J. Don Miller, Jr.
 Park Hays Miller, Jr.
 W. Brooke Morgan, Jr.
 C. Christopher Morris, II
 Ralph C. Most
 John L. Parker
 Henry F. Parry
 Harry T. Paxton
 James W. Pearce, Jr.
 James G. Peirce
 Charles Perry
 Joseph D. Purvis, Jr.
 T. Kite Sharpless
 William E. Sheppard, II
 James O. Sloss
 Allen W. Stokes
 Edmund M. Taylor
 Joseph H. Taylor
 William F. Tiernan, Jr.
 Henry L. Tomkinson
 Robert B. Wolf

\$24,717.00***1937**

C. Jackson Allen, Jr.
 Howard A. Andrews
 Anonymous
 Kenneth A. Beck
 William H. Bond
 John A. Cantrell
 James G. Carr, Jr.
 Joseph R. Carson
 Stephen G. Cary

* \$19,512 was contributed to the 25th Anniversary Gift.

1937 (Cont.)

Richard Cooper
 William H. Daudt
 Henry S. Drinker, Jr.
 Thomas E. Edwards
 Hans B. Engelmann
 Bruce H. French
 Daniel C. Frysinger
 Allan W. Gilmour, Jr.
 Roger L. Greif
 Henry C. Gulbrandsen
 Marshall C. Guthrie, Jr.
 Roy C. Haberkern, Jr.
 Andrew D. Hunt, Jr.
 Harry H. Kruener
 John A. Lester, Jr.
 M. Albert Linton, Jr.
 John B. Lukens
 Richard B. McLaughlin
 Ralph H. McMahon
 Frank E. Nulsen
 William A. Polster
 S. Sturgis Poorman
 Joseph T. Rivers, Jr.
 Peter P. Rodman
 Edward H. Rosenberry
 Edward B. Scull
 Thomas L. Shannon, Jr.
 Richard B. Shoemaker
 Melvin A. Weightman
 Philip M. Whitman
 S. Vincent Wilking
 Arthur N. Wrigley

\$20,078.00**1938**

Robert L. Aucott
 Robert M. Bird, Jr.
 John T. Carson, Jr.
 William W. Chambers
 Donald S. Childs, Jr.
 William H. Clark, Jr.
 Henry B. Cox
 Valery S. deBeausset
 Aubrey C. Dickson, Jr.
 William Duff
 Charles R. Ebersol
 Roderick Firth
 James M. George
 Robert P. Gilbert
 Jonathan Goldmark
 Wendell T. Kershner
 William S. Kinney, Jr.
 Louis B. Kohn, II
 William B. Kriebel
 Amos P. Leib
 Charles H. Ligon

1938 (Cont.)

William H. Luden, Jr.
 Malcolm D. McFarland
 Elliott H. Morse
 Leonard F. Norsworthy
 Dikran S. Pakradooni
 George Peirce
 Frank M. Ramsey, Jr.
 Clayton E. Ranck
 Lindley B. Reagan
 James L. Rich
 Leslie B. Schramm
 Philip R. Shank
 Clyde H. Slease
 William B. Sluss
 Charles E. Sponsler, Jr.
 Jonathan M. Steere, Jr.
 Thomas C. Tatman
 Hubert R. Taylor
 Irving Telling
 Robert J. Thompson, Jr.
 L. James Velte, Jr.
 William M. Webb
 E. Hambleton
 Welbourn, Jr.

\$11,178.00**1939**

Robert B. Ackerman
 Jerome I. Aron
 H. Lloyd Balderston
 Robert L. Balderston
 John L. Birkinbine
 George D. Bown
 James H. Bready
 Francis G. Brown
 David B. Chapin
 Jonathan Evans
 William E. Evans
 James P. Fenhagen
 John M. Finley
 John A. Flick
 John D. Hallahan
 Harry A. Heilman, Jr.
 Robert Herr
 John J. Jaquette
 Henry H. Jones
 Richard H. Lillie
 William W. McCune
 Charles E. Rankin
 William H. Reaves
 Francis P. Rohrmayer
 Daniel G. Santer
 T. David Shihadeh
 Laird H. Simons, Jr.
 Gilbert P. Talbot
 Howard P. Thomas, Jr.

1939 (Cont.)

John P. Trench
 William H. G. Warner
 Thomas A. Watkins
 Maurice A. Webster, Jr.
 Robert O. Whitson
 Samuel C. Withers, Jr.
\$13,355.25

1940

Ernest G. Allen
 Bruce D. Anderton
 Henry P. Balivet, Jr.
 Arthur E. Brown
 D. Baird Coursin
 Robert L. Dewees
 John A. Duncan
 Charles W. Fisher, Jr.
 David P. Flaccus
 John E. Gross
 John M. Lindley, Jr.
 Hayden Mason
 Robert W. McConnell, Jr.
 James E. Mechling
 Charles K. Peters
 Richard A. Poole
 Robert L. Schaeffer
 Thomas M. Taft
 John W. Wieder, Jr.
 Charles H. Wolfinger
 J. William Wood
\$3,011.00

1941

Edward P. Allinson, Jr.
 Stephen B. Andrus
 David B. Arnold
 Arthur G. Ashbrook, Jr.
 Richard H. Bolster
 Albert D. Branson
 Henry D. Cornman
 Hunt Davis
 Robert B. Dickson
 John W. Dorsey
 Edward L. Engelhardt
 Christopher Evans
 Robert W. Evans, Jr.
 Gerrett L. Ewing
 Louis J. Finger
 Edwin D. Grosholz
 Andrew F. Inglis
 Benton D. King
 Jan W. Long
 John R. McNeill
 Samuel M. Murphy, Jr.
 Arthur H. Napier, Jr.
 J. Philip Neal

1941 (Cont.)

Wilson H. Pile
 Robert H. Smith
 Samuel M. Snipes
 Leon Solis-Cohen, Jr.
 G. Ralph Strohl, Jr.
 J. Bruce Swigert
 Roy S. Vogt
 William R. Watson, Jr.
 Kenneth A. Wright
 Howard E. Ziegler, Jr.
\$9,318.46

1942

Charles C. Abbott
 George L. Aldridge
 Anonymous
 E. Howard Bedrossian
 Edgar D. Bell, Jr.
 Burns Brodhead
 Norman S. Brous
 Knox Brown
 John A. Clark
 Thomas C. Cochran, Jr.
 Alan L. Dorian
 Robert W. Dunham
 Roy A. Dye, Jr.
 Edgar R. Emery
 Walter C. Falconer
 John D. Farquhar
 Edward Flaccus
 John B. Flick, Jr.
 David S. Fox
 John A. Fust
 James F. Gary
 C. Kirk Greer
 J. Jarden Guenther, Jr.
 Gove Hambidge, Jr.
 Heber R. Harper
 Timothy P. Haworth
 Gordon W. Howe
 Henry W. Johnstone, Jr.
 T. Canby Jones
 Richard Kay
 L. Theodore Lawrence
 George C. Lewis, Jr.
 In Memory of
 James P. Magill, II
 Philip F. McLellan
 Clyde Nichols, Jr.
 Paul R. O'Connor
 Kenneth S. Roberts
 L. Paul Saxer
 David C. Thompson
 John D. Thomson
\$8,265.00

1943

John M. Allen
Eugene E. Anderson, Jr.
Christopher Cadbury
Paul M. Cope, Jr.
J. Morris Evans
Sumner W. Ferris
James B. Gilbert
William L. Grala, Jr.
Douglas R. Hallett
John R. Hogness
Byron E. Howe
Holland Hunter
Lewis C. Kibbee
David B. Kirk
Howard B. Kriebel
H. Mather Lippincott, Jr.
Russell M. Lyman
Robert MacCrate
Avrel Mason
John H. Meader
John M. Moon
Sterling Newell, Jr.
Frank K. Otto
Norman Peterkin
Arnold C. Satterthwaite
William Shihadeh
David D. Somers
Alexander C. Tomlinson
Haskell Torrence
John C. Whitehead
Carl E. Widney, Jr.
William N. Wingerd

\$12,019.50

1944

Charles S. Alden
Ellsworth C. Alvord, Jr.
Donald H. Baird
Louis P. Bolgiano
William K. Conn
Jodie D. Crabtree, Jr.
Cassin W. Craig
Thomas Elkinton
Charles E. Fox, Jr.
Edgar D. Free
Jesse G. Grier
Edmond E. Hammond, Jr.
Walter Hollander, Jr.
William M. Houston
Edward B. Irving, Jr.
John S. Klein
John M. Krom
David L. Marshall
William R. McShane
Daniel K. Miller
Warren Moore, Jr.

1944 (Cont.)

Alfred M. Pease, Jr.
Arnold R. Post
D. Patrick M. Robinson
H. Royer Smith, Jr.
David E. Stokes
Samuel E. Stokes, Jr.
Spencer R. Stuart
Henry S. Vila
Richard W. Watkins
Douglas C. Wendell, Jr.
Harvey Wigfield
Howard P. Wood
James H. Worl

\$21,350.00

1945

Andrew P. Allinson
William W. Ambler
George A. Bartholomew
David E. Bassert
I. Edward Block
John H. Bush
John R. Cary
Frederick T. J. Clement
Richard W. Cole
Robert P. de Long
George L. de
Schweinitz, Jr.
Forrest L. Gager, Jr.
James Gilmore
Edward H. Handy, Jr.
Ernest M. Heimlich
David Yi-Yung Hsia
Lewis M. Johnson
M. Powell Lawton
Phillip C. Mann
Charles W. Matlack
John W. Pierson, Jr.
William Pinch, Jr.
Robert G. Pontius
Edmond Preston, III
Geert C. E. Prins
R. Arnold Ricks
Leon Robbins, Jr.
Vernon M. Root
R. Bradley Royer
Charles A. Shields
Drayton M. Smith
Christopher Van Hollen
Stacey H. Widdicombe, Jr.

\$40,983.00

1946

Frederick H. Bartlett
Robert H. Bedrossian
Thomas M. Birdsall

1946 (Cont.)

Arthur E. Bryson
 Jonathan F. Bushnell
 William T. Delp
 Hugh M. Edgerton
 Merrill Goodman
 Thomas P. Goodman
 S. Harley Gross
 Paul M. Henkels
 Walter Y. Kato
 Bertram K. Kummel
 William M. Lee
 John K. Libby
 David E. Long
 Harold V. Lynch, Jr.
 Donald B. McNeill
 Peter S. Olmstead
 Robert N. Price
 Thomas J. Ryan
 Charles C. Ryrie
 Charles S. Sangree
 William E. Sherpick
 Richard E. Spatz
 David S. Stewart
 James F. Sutor
 M. Gordon Wolman

\$6,581.00**1947**

Peter G. Bennett
 Jules Bingham
 William F. Bouzarth
 Anthony J. De Phillips
 Charles A. Doehlert
 In Memory of
 Henry Ecroyd, Jr.
 Edwin B. Klein, Jr.
 Cloyd Marvin
 William J. McIlhenny
 Donald H. Meldrum
 George Nicklin
 Robert P. Roche
 Martin Sanders
 Howard W.
 Starkweather, Jr.
 Daniel H. Wagner
 H. Macy Whitehead
 Daniel R. Wright

\$2,652.53**1948**

Monroe E. Alenick
 Timothy B. Atkeson
 William P. Barker
 William W. Bell
 Joseph C. Birdsall, Jr.
 William R. Clark
 Craig D. Culbert
 C. Daniel Drake

1948 (Cont.)

Thomas T. Fleming
 William H. Harris
 John N. Hauser
 John K. Henne
 John R. Hoopes, Jr.
 James A. Jacob, Jr.
 Robert Maquinay
 Robert W. Meyers
 Daniel D. Olivier
 Martin Oppenheimer
 Howard M. Rawnsley
 Richard A. Schlegel
 Richard W. Schuman
 Edward S. Wheeler
 Robert J. Widmer

\$2,388.00**1949**

John D. Anderson
 Omar Bailey
 Addison S. Beckley
 Daniel S. Bernstein
 J. Neil Boger
 Paul C. Brewer, Jr.
 William T. Broom
 John E. Brownlee
 James C. Buckley
 Warder H. Cadbury
 F. James Dallett, Jr.
 Carmen Di Giovanni
 Donald W. Disbrow
 Henry J. Dvorken
 Edward Echikson
 C. Willis Edgerton, Jr.
 Robert Edgerton
 Edmund K. Faltermayer
 S. Tucker Fox, III
 Charles H. Geoffroy
 I. Robert Goodman
 William K. Gorham, III
 Thomas D. Graft
 G. Stanley Hammond
 Robert Harper
 David S. Hastings
 Donald Hayes
 R. Nicholas Hazelwood
 John B. Henkels, III
 William L. Hires
 George L. Hoffman, Jr.
 Irving Hollingshead, Jr.
 F. Thomas Hopkins
 H. Alan Hume
 Victor L. Johnson
 Robert J. Johnston, Jr.
 Homer M. Kimmich
 Milton P. King

1949 (Cont.)

Walter A. Laity
 Thomas D. Langston
 H. Robert Lasday
 W. S. Mallory Lash
 Isaac C. Lycett, Jr.
 James Q. Miller
 Stephen R. Miller
 William H. Miller
 DeWitt H.

Montgomery, Jr.
 George H. Nofer, II
 Wendell W. Oberholtzer
 George E. Ruff, Jr.
 Carl M. Sangree, Jr.
 Merle A. Schultz
 Edward O. Shakespeare
 C. Robert Shearer
 Ellis P. Singer
 Donald I. Sparks
 David E. Thomas
 James H. Thorpe
 Conrad W. Turner
 Edwin F. Tuttle
 Clark A. Vaughan
 Robert H. Velte
 Francis K. Walnut
 John R. Wilcox
 Robert D. Williams
 Robert A. Wingerd
 Theodore C. Wright

\$10,840.00**1950**

John T. Acton
 Harold J. Barker, Jr.
 Joseph A. Barnes, Jr.
 William M. Barrows
 Wesley R. Betson
 Joseph G. Billo
 L. Gordon Blasius
 David M. Blum
 David M. Brawner
 Nicholas G. Chantiles
 Herbert Cheyette
 George L. Conklin
 Brooks B. Cooper
 John C. Dyson
 A. Theodore Eastman
 Thomas H. Edmonds
 Richard A. Feroe
 Richard M. Fletcher
 Peter B. Flint
 James H. Foster
 Edward J. Gately, Jr.
 David S. Harden
 James B. Hastings
 Robert J. Healey

1950 (Cont.)

David O. Herman
 Hoyt L. Hickman
 John A. Jackson
 Edgar M. Jamison, Jr.
 Jon J. Johnston
 A. Wilson Jones
 John Z. Katz
 Robert L. Kirk
 Andrew M. Knowlton
 Richard W. Laity
 Fred J. Lind
 William A. Linthicum, Jr.
 W. Bruce MacIntosh, Jr.
 Karl S. Manwiller, Jr.
 Donald B. Martin
 John Marvin
 G. Diehl Mateer, Jr.
 E. Trail Mathias
 Kenneth M. Moser
 Richard N. Myers
 Armand R. Ouellette
 Merlin W. Packard
 Robert Parke, Jr.
 Edward L. Pennypacker
 David E. Philips
 Robert Pollard, III
 Richard E. Rankin
 William L. Rhoads, III
 Thomas M. Ridington
 William Y. Rodewald
 William Schwartz

Eugene Seder
 Aruthur G. Segal
 Joseph W. Sener, Jr.
 Paul R. Smith
 Edward R. Snader, III
 A. Mead Sniffen
 E. Thomas Snipes
(Deceased)

Thomas Stern
 Peter Stettenheim
 H. Frederick Strohl
 William M. Swartley
 Runcie Tatnall, Jr.
 Edward W. Test
 Thomas P. Thornton
 David C. Tilley
 John A. Todd
 Thomas A. Todd
 Bernard Van Arkel
 William W. Vogel
 Ian G. Walker
 Robert S. Wickham
 James Wood, III
 Andrew J. Zweifler

\$10,092.22

1951

Donald S. Amussen
Robert deP. Brown
John J. Cooney
D. Elwyn Davies
John H. Davison
Allen H. Dewees
John L. Dodge
Philip Edgerton
Philip J. Flanders
Floyd F. Ford, Jr.
Robert W. Freeman
James C. French
J. Brooke Gardiner
Charles D. Griffith
Donald B. Harris
Harry H. Hoehler
John L. Holcombe
John M. Hume
William Jardine, II
Arkady Kalishevsky
F. Scott Kimmich
Robert B. Kunkel
Gilbert M. P. Leib
William P. Melcher
Frederick S. Miller, Jr.
John F. Paulson
Darwin Prockop
R. James Quillen
Francis H. Roberts
G. Stanley Searle
David W. Seith
Paul E. Shipley
Karl H. Spaeth
Diogenes A. H. Taboga
David K. Trumper
Harold F. Vedova
Charles N. Welsh
Alan T. Willoughby
William D. Wixom
John G. Zerrer

\$4,773.00

1952

Peter O. C. Austin-Small
Richard K. Barnes
Philip J. Baur
Howard Bliss
B. Donald Broadbelt
Donald C. Chandler, Jr.
Robert S. Chase, Jr.
Sydney M. Cone, III
Peter Cummins
Curt Fey
Robert T. Foley
Robert J. Franke
Joseph A. Gailey

1952 (Cont.)

Burrill M. Getman, Jr.
Vincent Gilpin, Jr.
Robert A. Hammond
Daniel W. Hardy
Frederic V. Hetzel, II
Edward N. Hibberd, Jr.
A. Clark Johnson, Jr.
Roger F. Jones
Frank M. Keetz
Richard A. Kirk
Lawrence M. Leonard
Eric Loeb
Leo D. McDermott
Richard K. Mead
William D. L. Melcher
Frank V. Miles
Paul C. Milner, II
Richard A. Norris
Peter Oliver
G. Porter Perham
Hershel Shanks
Paul L. Sterner
Peter Tapke
David P. Willis
F. Thomas Wilson
Richard E. Wilson
Thomas M. Woodward

\$3,908.00

1953

A. Reid Allison, Jr.
Anonymus
John F. Benton
Thomas N. Bisson
Elmer B. Carter
R. Theodore Curran
Hugo L. Deaton
David N. Denman
Joseph S. Dibble
John Dixon
E. Lee Forker
George C. Fuller
Milton McC. Gatch, Jr.
Thomas H. Goldsmith
Norris Hansell, IV
Joseph E. Helweg, Jr.
Herbert W. Hickman
Hubert F. Howson
Herbert A. Huene
Milton H. Isay
Richard T. Lane, Jr.
John W. Ledeboer, Jr.
John M. Leggett
Arthur W. Leibold
Somervell Linthicum
Robert G. Logan

1953 (Cont.)

Norman D. Mattson
 Robert S. Matteson
 David A. Mayer
 Lawrence C. Morris, Jr.
 T. Morris Perot, IV
 F. Jackson Piotrow
 H. Edward Reed
 Edward P. Rich
 C. Evans Roberts, Jr.
 Charles N. Robinson
 Burton R. Saidel
 G. David Schlegel
 Mark Sexton
 Labron K. Shuman
 John M. Somerndike
 Philip R. Stansbury
 Joseph H. Stein, Jr.
 Hsin-Yuan Tien
 David C. Wilson
 Thomas A. Wood

\$4,766.00**1954**

Philip S. Benjamin
 M. Wyllis Bibbins
 Richard B. Bourne
 John C. Burton
 W. Wistar Comfort
 James D. Crawford
 Joseph G. T. deBerry
 H. Michael Dunn
 James P. Felstiner
 Lawrence Finkelstein
 Stanley A. Forster
 Charles L. Fry
 John F. Garrity, Jr.
 Peter B. Gontrum
 Christian M. Hansen, Jr.
 Keith J. Hardman
 Earl G. Harrison, Jr.
 John S. C. Harvey, III
 Conrad F. Hellwege, Jr.
 Thomas S. Hiers
 Edward P.
 Hollingsworth, Jr.
 L. Morris Johnson
 Richard I. Jones
 William G. Kaye
 P. Richard Klein
 Mark C. Lissfelt
 Michael Moore
 R. Ronald Reno, Jr.
 Thomas B. Rentschler
 John B. Rettew, III
 Rodman S. Rothermel
 Edward M. Steele

1954 (Cont.)

Richard K. Taylor
 E. J. Baylis Thomas, III
 Carlo Veneziale
 Christopher White
 William C. Wilson
 John C. Wren
 Peter Woll

\$5,511.50**1955**

Gerald S. Albright
 Alexander C. Allen
 John J. Allen
 Lee C. Bennett, Jr.
 Eric D. Blanchard
 Theodore R. Bledsoe
 James B. Bradbeer
 William S. Bradfield, Jr.
 James A. Braker
 John B. Flint
 Marc A. Forman
 Alexander H. Frey, Jr.
 Alexander Goldfinger, Jr.
 Richard D. Hardy
 Pierce C. Hazelton
 David E. Hogenauer
 Johns W. Hopkins
 Richard W. Marek
 William S. Masland
 Grant Morrow, III
 Urban Moss
 John H. Osler, III
 Paulding Phelps
 Harrison G. Raper
 Robert E. Read
 Richard D. Rivers
 Peter B. Rosenberger
 John K. Speicher
 Robert G. Wilson

\$1,750.00**1956**

John K. Armstrong
 Peter H. Armstrong
 Donald F. Cohill
 John H. Dick
 Mark B. Freedman
 Harold M. Friedman
 Thomas H. Garver
 John H. Gould
 Norman Grossblatt
 Winfield S. Hall
 John R. Hawkins
 Joseph L. Horner
 R. Allen Irvine
 Richard A. Isay

1956 (Cont.)

George P. Keeley
 Jerome J. Klinman
 Stephen B. Knowlton, Jr.
 Theodore G. Kummer
 Ernest Kurkjian
 Charles B. Lane
 Walter E. Langsam
 H. Michael Mann
 Robin S. McDowell
 Donald C. Mead
 John H. Mikhail
 Theodore M. Regan, Jr.
 Fritz G. Renken
 Peter M. Renner
 David B. Seaver
 H. Stark Semans
 James R. Shuster
 Steven Sieverts
 Michael Smith
 Geoffrey H. Steere
 John M. Stephens
 Robert K. Togasaki
 Robert P. Wallace
 D. Alexander Wieland, Jr.
 Lamar D. Woznicki

\$3,329.00**1957**

Marc F. Abramson
 Anthony G. Amsterdam
 Anonymous
 Mason Barr, Jr.
 Blaine L. Block
 Robert C. Challener
 Pierre Clavel
 Clive R. Coroneos
 Donald A. Crane
 Robert W. Densford, II
 Benjamin A. Dent
 Michael B. Donham
 Richard T. T. Forman
 Roger S. Foster, Jr.
 Robert H. Goldberg
 Diller B. Groff, III
 Benson H. Hart
 Rolland H. Henderson
 Allan A. Hunter, Jr.
 Akira Iriye
 Robert W. Kilpatrick
 Edwin J. Kirby, Jr.
 Joel M. Levin
 Erik B. Mezger
 William W. Moss, III
 William L. Newmeyer, III
 Robert W. Noyes
 Lincoln D. Paine

1957 (Cont.)

Neil W. Plass
 Richard C. Rehmyer
 Ralph C. Sanson, Jr.
 John R. Schott
 Richard B. Smith
 William D. Stine
 Daniel W. Swift
 Joseph S. Torg
 Richard V. Wagner
 John G. Wallace
 James N. Whitney
 E. Reed Wilbur
 Howard L. Wolf
 Peter K. C. Zavitz

\$3,135.00**1958**

John F. Adams
 Paul L. Aiken
 Cheston M. Berlin, Jr.
 William C. Bertolet
 James L. Boyer
 Edward L. Bradley
 Alfred S. Buck
 Lawrence B. Christmas
 David W. Ellis
 Michael R. Fogel
 Burton Friedman
 Leigh M. Gelser
 William B. Harvey
 John W. B. Hershey
 James D. Holmes
 Robert J. Hopper
 Douglas S. Kerr
 Norman R. Klinman
 Robert L. Krause
 Harold P. Kurzman, Jr.
 Thomas Maddock, II
 Anthony A. Manheim
 Thomas A. Medsger
 H. Shenton Monkemeyer
 J. Wilson Myers
 Hermann K. Platt
 B. Graham Ralph
 Paul G. Rodewald, Jr.
 Earl J. Smith
 E. Chadwick Squires
 Jon P. Tilley
 Donald P. Winter

\$1,714.00**1959**

J. Gurdon Brewster
 Bruce D. Campbell
 David C. Char
 Daniel M. Clemson

1959 (Cont.)

Robert M. Colburn
 William S. Comanor
 Frank S. Dietrich
 Peter J. Eidenberg
 Mead M. Feick
 John M. Foshay
 David L. Grambs
 Alexander A. Green
 John D. Gresimer, II
 Lawrence S. C. Griffith
 Jeffrey K. Hecht
 Elliott M. Heiman
 John H. Hornbaker, Jr.
 Alan E. Johnson
 Michael M. Kaback
 Walter E. Kaegi, Jr.
 David H. Kain
 James A. Katowitz
 Robert L. Kriel
 William M. Longstreth
 Joel R. Lowenthal
 Frank T. Lyman, Jr.
 Laurence C. Maud
 J. David Miller
 J. Philip Miller
 James H. Morris
 James R. Moyes
 Paul E. H. Norris
 N. Tenney Peck
 Henry A. Phillips
 Emery V. Rice
 Theodore A. Robinson
 Donald A. Scarborough
 Donald B. Scholl
 Palmer G. Steward
 Donald A. Stone, Jr.
 William G. Taylor
 Charles G. Thorne, Jr.
 Stuart H. Tubis
 John R. Vastine
 Edwin D. Wolf

\$3,391.00**1960**

Peter L. Arnow
 Truman C. Bullard
 George G. Carpenter
 John W. Coker
 Robert L. Coles
 Coulson A. Conn
 James D. Cooper
 Albert E. Dahlberg
 Philip V. Gerdine, Jr.
 Frank L. Harvey, III
 R. David Hillier
 Peter B. Howard

1960 (Cont.)

William J. Howard
 John B. Hurford
 C. Herman Klingensmaier
 Gerald M. Levin
 Robert P. Margie
 David W. Morgan
 David E. Nelson
 Benjamin H. Newcomb
 Charles F. Osgood
 George G. C. Parker
 J. Allen Ramey
 David G. Rhoads
 Jonathan E. Rhoads, Jr.
 Charles C. Roberts
 David Shivers
 Brownlow M. Speer
 Samuel M. V. Tatnall
 Jonathan S. Weil
 Arthur W. Wright
 Ralph T. Wright

\$2,214.00**GRADUATE
STUDENTS**

Wilbert L. Braxton
 Edwin B. Bronner
 Wallace T. Collett
 William L. Conlon
 Florence T. Cox
 Mary E. Dasenbrook
 Mrs. Elizabeth B. Garrison
 Maria L. Gildemeister
 Priscilla K. Goldthwaite
 Michael Gunther
 George W. Hagner, Jr.
 Daniel N. Hoffman
 Allen D. Hole, Jr.
 Clayton W. Holmes
 Luther M. Hunt
 Arland I. Innes
 Elizabeth Marsh Jensen
 Mrs. Morse Johnson
 Samuel D. Kron
 Hershail L. Macon
 Robert K. Marshall
 Gerald D. McDonald
 Ivan C. Milhous
 Esther Morrison
 Frank G. Nelson
 Barbara T. Nichols
 David H. Parsons, Jr.
 Clarence R. Perisho
 Joyce Wuesthoff Povolny
 Mr. and Mrs. Charles R.
 Read

Graduate (Cont.)

Mrs. Channing B.
Richardson
S. Roy Schuckman
Samray Smith
Warren Swartzback
J. Spottswood Taylor
Allen M. Terrell
Robert Van der Voort
Paul W. Wager
Paul W. Weiser
Rev. Frank Weiskel
Mrs. Raya S. Weissman
Anne Stiles Wylie
\$5,063.00

NON-ALUMNI PARENTS

In Memory of John B. Adams
Mrs. Paul L. Aiken
Ralph B. Allen
Alf S. Alving
Mrs. and Mrs. William R. Aronoff
Mr. and Mrs. Frederick G. Auer
Mrs. Philip J. Baur
Mrs. Richard Bernheimer
Mrs. Alan Besdine
Paul P. Blackburn, Jr.
Mrs. Robert C. Blake
Mr. and Mrs. G. Laurence Blauvelt
Dr. Morton E. Block
Mr. and Mrs. Maurice J. Blumenthal
Prof. and Mrs. Nicholas T. Bobrovnikoff
Mr. and Mrs. Herbert J. Bockol
Dr. and Mrs. Benjamin Boshes
Edward L. Bradley
Mr. and Mrs. Andre E. Briod, Sr.
Dr. Paul C. Bucy
Dr. and Mrs. Leo B. Burgin
Mr. and Mrs. Frank Caplan
Mr. and Mrs. James F. Carlin, Sr.
Mr. and Mrs. O. William Carpenter
Mr. and Mrs. G. Howard Carragan
Walter H. Clark
Stanley K. Coffman
James T. Coker
Theodore Cook
David M. Cooper
Maxwell Dane
Mrs. Walter I. Davison
Mr. and Mrs. Michael Del Bello
Mr. and Mrs. Romolo de Luca
Mr. and Mrs. Frank A. Duttonhofer
Mr. and Mrs. Henry Ecroyd

Parents (Cont.)

Dr. John T. Edsall
Charles W. Eisele
Mr. and Mrs. Arthur Ellison
Mr. and Mrs. Benjamin Ettinger
Mr. and Mrs. A. J. Faulhaber
Mr. and Mrs. Edmund A. Fenander
Mrs. Lee Foshay
Dr. and Mrs. Joseph E. Franklin
Mr. and Mrs. A. Stone Freedberg
Mrs. Louis K. Freedman
Mrs. Frances B. Friedman
Mr. J. Carol Fulkerson
John Gardiner, Jr.
Mr. and Mrs. John Gillmor
Mr. and Mrs. Ellis A. Gold
Edward K. Gontrum
Mr. and Mrs. Isadore Gottlieb
Rev. and Mrs. George L. Grambs
Mrs. Dudley H. Grant
Mr. and Mrs. Philip H. Gray
Dr. and Mrs. John Q. Griffith, Jr.
Mr. and Mrs. Irvin J. Gruber
Mr. and Mrs. Wendell C. Hall
Albert Helsinger
Mr. and Mrs. John S. Heuss
Mr. and Mrs. Robert Hirsch
Dr. Charles L. Hobaugh
Mr. and Mrs. William J. Hodge
Dr. and Mrs. Jesse Holland
Walter Hollander, Sr.
Maurice Horwitz
Mrs. Milton H. Isay
Mrs. Ashmore C. Johnson
Mr. and Mrs. Philip A. Kaye
Wylie Kilpatrick
Mrs. Emil Kimmich
Dr. Otto Klineberg
Mr. and Mrs. Ralph W. Knudson
Michael E. Kratz
Mr. and Mrs. Robert M. Krone
George K. Kummer
Mr. and Mrs. Hal B. Lary
Mrs. Robert B. Lea
Maurice E. Long
Mrs. W. Church Longstreth
Otto Lutherer
Mrs. Isaac C. Lycett
Mr. and Mrs. Kenneth A. MacLeod
Mr. and Mrs. J. Gilbert Macort
Mr. and Mrs. Frank J. Malandra
Dr. Gilbert H. Marquardt
Mr. and Mrs. George Martin
Mrs. Carleton W. Meyer
Mr. and Mrs. Cloy M. Miller
Mrs. Henry S. Miller

Parents (Cont.)

Mr. and Mrs. Reid T. Milner
Dr. and Mrs. Roger S. Mitchell
Mr. and Mrs. Kenneth F. Montgomery
Dr. and Mrs. Kenneth W. Morgan
Dr. Grant C. Morrow
Francis Murphey
Wallace A. Murray
Mrs. Hortense Neimark
Mr. and Mrs. Hans A. Norberg
Prof. and Mrs. Grant J. Northrup
Mrs. Edna K. Paine
Lindley E. Parker
Mr. and Mrs. Thomas S. Parker
Mr. and Mrs. Raymond Pearlstine
Othniel A. Pendleton
Mr. and Mrs. Robert Penn
Mr. and Mrs. Harvey C. Perry
Hugo M. Pfaltz
Mrs. Henry Phillips
Frederick A. Piotrow
Dr. and Mrs. William F. Putnam
Mr. and Mrs. Frederick R. Raach
Mr. and Mrs. Henry A. Ramey
Paul C. Raymond
Stayman L. Reed
Mr. and Mrs. Albert Reiner
Mr. and Mrs. Fred Reinfeld
Mr. and Mrs. Russell R. Reno
Dr. and Mrs. Harry M. Robinson, Jr.
William T. Robinson, Jr.
Arthur Rosenbaum
Samuel R. Rosenbaum
Mr. and Mrs. Norman Ruberg
Mr. and Mrs. Douglas Ruff
George B. Russell
Dr. and Mrs. Gregory B. Salisbury
Dr. and Mrs. Frederic E. Sanford
Benson N. Schambelan
Dr. Lewis C. Scheffey
Robert H. Scholl
Mr. and Mrs. Frederick C. Schulze
Dr. and Mrs. Abraham B. Schwartz
Mrs. Leighton R. Scott
Mr. and Mrs. Samuel C. Segal
Mr. Herman S. Shafer
Mr. and Mrs. Lauriston Sharp
Mr. and Mrs. William F. Shelton
James Smillie
Col. and Mrs. A. Mark Smith, II
Mr. and Mrs. George D. Smith
L. Cheyney Smith
Peter Smith
Mr. and Mrs. Randolph P. Smith
Dr. and Mrs. Herman D. Snow
Mr. and Mrs. Jerome J. Sonnenborn

Parents (Cont.)

John K. Speicher
Mr. and Mrs. John Spiegel
Mrs. Howard W. Starkweather
Mr. and Mrs. Morton Stavis
Leland E. Stevenson
Mrs. Graves Taylor
C. Howard Thomas
Dr. and Mrs. T. Ewing Thompson, Jr.
Dr. and Mrs. Charles G. Thorne
Mrs. Raymond Townley
Oscar C. Trabert
Mr. and Mrs. Max Trumper
Mr. and Mrs. Philip W. Vance
Mr. Leo Vernon
Mr. and Mrs. Harold D. Weaver
Mr. Edward A. Weeks
Mr. and Mrs. E. Hambleton Welbourn
Mr. and Mrs. Louis Werner
Dr. and Mrs. James G. M. Weyand
D. Alexander Wieland
Mr. and Mrs. Harold T. Williams
Mr. and Mrs. Stillman P. Williams
Howard A. Wolf
Mr. and Mrs. Willis J. Zangerle
Mr. and Mrs. Jay Ziegenfuss

Total \$52,195.50

NON-ALUMNI FRIENDS OF THE COLLEGE

Mr. M. A. Ajzenberg
Mrs. George R. Allen
Anonymous (2)
Manuel J. Asensio
Thomas J. Beddow
Philip W. Bell
Miss Agnes Croll Blackburne
Mr. and Mrs. Clement A. Borton
James O. Brooks
Robert C. Clothier
Mrs. John H. Carter
A. Reynolds Crane
Mrs. John T. Curran
Paul J. R. Desjardins
Harmon C. Dunathan
Mr. and Mrs. Franz Dykstra
Mrs. Anna R. Evans
Miss Anna Cope Evans
Mrs. McClure Fahnstock
Francis C. Ferris
Irving Finger
John W. Flight
Friends Social Union
Mrs. Pauline C. Gaehr
Ethel P. Goff

Non-Alumni Friends (Cont.)

Harold S. Gray
Mr. and Mrs. Louis C. Green
Marcel M. Gutwirth
Douglas Heath
Mrs. Margaret Hiscott
S. Hamill Horne
J. Robert James
Mary Hoxie Jones
Virginia Drysdale Keeney
George A. Kennedy
Mrs. William M. Kift
Mrs. Morris M. Lee
Paul S. Lippincott, Jr.
Ariel G. Loewy
Wallace T. MacCaffrey
Colin McKay
Louis J. McCloskey
Walter H. Mohr
George L. Morris
Mr. and Mrs. James A. Norton
Cletus O. Oakley
Mrs. Edna K. Paine
Frederic Palmer
Francis H. Parker
Mrs. Raymond T. Parrot
Mrs. Harry T. Paxton
Mrs. John S. Price
Ernest J. Prudente
Dr. and Mrs. Ira D. A. Reid
Mrs. Junius A. Richards
Leon H. Rittenhouse
Edgar Smith Rose
James C. Roberts
Melvin Santer
Mr. and Mrs. Ralph M. Sargent
Alfred W. Satterthwaite
Mrs. Alfred G. Scattergood
Miss Margaret Scattergood
Mr. and Mrs. R. J. Schutte
Mr. and Mrs. Walter Selove
Mr. and Mrs. Robert L. Smith
Edward D. Snyder
Louis Solomon
Herman M. Somers
John P. Spielman, Jr.
Douglas Steere
Mrs. Edward A. Steiner
Mrs. Francis J. Stokes
Mrs. J. Stoddell Stokes
Alfred Swan
Miss Elizabeth Tarquinio
Howard M. Teaf, Jr.

Mrs. Frances W. Terry
Craig R. Thompson
Rt. Rev. Andrew Yu-Yue Tsu
Robert I. Walter
Mrs. Frances Y. C. Warner
Howard L. Waterall
Mrs. Allison P. Wesley
In Memory of Mrs. Morris M. Wexler
Mrs. T. Barclay Whitson
H. Justice Williams
Russell R. Williams, Jr. (*Deceased*)
Mrs. John Woodall

Total \$87,715.00

CORPORATIONS AND FOUNDATIONS

*Aetna Life Affiliated Company
*American Brake Shoe Foundation, Inc.
*American Home Products Corp.
*The Bank of New York
Budd Company
*Burlington Industries
*Cabot Foundation, Inc.
*Campbell Soup Company
Certain-teed Products Corp.
*Chicopee Manufacturing Corp.
*Connecticut General Life Insurance
Company
*Dow Corning Corp.
*The First Nat'l City Bank of New York
*Ford Motor Company
*The General Electric Foundation
*The General Foods Fund, Inc.
Girard Trust Corn Exchange Bank,
Trustee, Estate of Helen D. Groome
Beatty
Gulf Oil Corporation
*Hercules Powder Company
Household Finance Foundation
*International Business Machines Corp.
*Kidder, Peabody and Company
S. Kind and Sons
Charles H. and Annetta R. Masland
Foundation
*McGraw-Hill Publishing Company
*Mellon Nat'l Bank and Trust Company
*Merck Company Foundation
The Morris-Wheeler Foundation
C. H. Norton Company
*Pennsalt Chemicals Corp.
Philadelphia Quartz Company
*Pittsburgh Plate Glass Foundation

* These companies made gifts to **Haverford** to match those of Alumni and other friends.

Corporation and Foundation (Cont.)

The Walter A. Rentschler Family
Foundation
Richardson Scale Company
Thomas H. and Mary Williams Shoe-
maker Fund
*Smith Kline & French Foundation
F. J. Stokes Corporation
*Towers, Perrin, Forster & Crosby, Inc.

The Western Printing & Lithographing
Company, Foundation
Miles White Beneficial Society
Rose Hirsh Wolf Fund
Yarway Foundation
*The Young & Rubicam Foundation
Total \$44,702.59

SUMMARY

Alumni Subscriptions	\$ 895,224.18
Non-Alumni Parents	52,195.50
Non-Alumni Friends	87,715.00
Corporations and Foundations	44,702.59
Subscriptions reported elsewhere	51,576.06
Total for Haverford College Development Program	\$1,131,413.33

* These companies made gifts to Haverford to match those of Alumni and other friends.

OTHER DONATIONS

FOR BOOKS

Margaret Conklin
Eric Harrison
Beta Rho Sigma
Morris M. Wexler
Herbert Cheyette
William Bradfield
S. E. Stokes, Jr.
Matzke Royalties
Eleanor Kittridge
George Mathues
Class of 1958

\$2,522.77

FOR PRIZES

Anonymous

\$ 100.00

FOR SCHOLARSHIPS

Director of City Trusts—Philadelphia
Friends Freedmens Association
National Merit Corporation
General Motors
Haverford Society of Maryland:
 Conrad Acton
 E. K. Haviland
 Isaac L. Hibberd
 Lindley Parker
 John Parker
 Walter Sondheim
 E. Hambleton Welbourn
National Honor Society
Bishops Fund, Diocese of Pennsylvania
Newspaper Fund
Kenilworth Parent Teachers Association
University of Buffalo
City of Philadelphia—Mayor's Office
Mendenhall Memorial Fund
Yale University
Rotary Club of Harrisburg, Pennsylvania
Rennsler Polytechnical Institute
Swampscott Public School
Union College
African-American Institute
Haverford College Service Fund

Students Association of Haverford College
Public Welfare
Biddle, Paul Dawson & Yocum
Christian R. and Mary
 Lindbach Foundation
Litchfield County University Club
Union Carbide Educational Fund
Scott Paper Foundation
Philadelphia School District

\$41,836.93

FOR OTHER PURPOSES

Alumni Association
John Kimmick
Anonymous for Cope Field
Esso Foundation
Harrison Hires
Caroline Newton
Philadelphia Quartz Company
Grant Marrow, III
Christian R. and Mary
 Lindbach Foundation
E. I. duPont de Nemours & Company
Foundation for Independent Colleges
John D. Kinard
William M. Maier
C. C. Morris
Robert L. Locke
H. Royer Smith, Jr.
N. W. Ayer & Sons
Thomas H. and Mary Williams Shoemaker Fund
Ford Foundation
Shell Foundation
National Science Foundation for Scientific Purpose
Social Science Research Corporation
Carnegie Corporation
Council on Economic Affairs
Mrs. William S. Davison
Atomic Energy Commission for Equipment
Smith Kline and French Foundation

\$163,687.89

FOR FACULTY PROJECTS

National Institutes of Health
National Science Foundation
Atomic Energy Commission
American Chemical Society

\$87,347.00

FOR THE FRIENDS OF MUSIC AT HAVERFORD

Janet M. Agnew
Mr. Edward P. Alexander
Anonymous
Mrs. Kenneth E. Appel
Ann Benham
Mrs. B. Franklin Blair
Eleanor A. Bliss
Mrs. L. Boor
Mrs. Hugh Borton
Harriet L. Budke
Mr. Robert H. Butman
Mrs. F. Higginson Cabot
Mrs. George L. Carland
Edytha M. Carr
Mrs. Henry M. Caspar
Mr. Allen B. Clayton
Mrs. Abraham K. Cohen
Mrs. Howard Comfort
Mrs. F. Cunningham, Jr.
Miss Elinor E. Curwen
Mr. and Mrs. Henry S. Drinker
Miss Gertrude Ely
Mr. Woodruff J. Emlen
Mrs. McClure Fahnestock
Mr. John W. Flight
Mrs. Harrison F. Flippin
Clare Ray Ford
Dr. Robert E. Forster
Mrs. A. V. Fowler
Mrs. Sylvia Glickman
Mrs. Louis C. Green
Miss Cynthia Griffin
Mr. Marcel M. Gutwirth
Mrs. Otto Haas
Charlotte B. Hall
Mr. E. H. Handy, Jr.
Ethel Hastings
Miss Alice Martin Hawkins
Mrs. Nathan Haywood
Mr. John Van Hulsteyn
Mr. Holland Hunter
Agi Jambor
Mrs. William M. Kift

Patricia G. Knapp
Mr. and Mrs. Herbert L. Koslow
Marija Krasauskas
Mrs. Richard Lattimore
Mrs. L. S. Lewis
Mrs. Wm. E. Lingelbach
Mrs. Dean P. Lockwood
Mr. J. A. Maries
Mrs. Suzanne Newhall
Mr. Robert Scott Noone
Mildred B. Northrop
Mrs. William A. Obdyke
Mary Parsons
Mr. Harry W. Pfund
Mrs. J. L. Prinsky
Mrs. George P. Putnam
Mrs. Richard Recknagel
Miss Marian Reed
Mrs. John F. Rich
Caroline Robbins
Mr. and Mrs. Ralph M. Sargent
Mrs. Charles C. Savage
Dr. and Mrs. Lewis C. Scheffey
Mrs. Lawrence M. Seiver
Mr. T. Kite Sharpless
Mary C. Smith
Mr. and Mrs. Edward D. Snyder
Margaret H. Steen
Mary H. Steen
Mrs. J. S. Stokes
S. Emlen Stokes, M.D.
Prof. Alfred J. Swan
Mrs. Rosalie M. Talone
Mrs. Arthur H. Thomas
Carol H. Thomas
Margaret K. Turanski
Helen Norris Tuttle
Mrs. C. Wilbur Ufford
Mrs. Harold Van Doren
Mrs. M. J. Van Moppes
Mrs. Andrew C. Vauclain
Mrs. George Vaux
Mr. Adolph Vogel
Jane Walker
Mrs. Herbert S. Warren
Mrs. William White
Mr. H. Justice Williams
Miss Dorothy Wire
Mr. Owen J. Wister
Mrs. Raymond D. B. Wright
Mrs. D. B. Zoob

\$ 767.50

FOR THE LIBRARY ASSOCIATES

Mr. and Mrs. Charles D. Abbott
 Miss Ann C. Almy
 Dr. Russell A. Anthony
 Dr. and Mrs. K. E. Appel
 Mr. and Mrs. Walter Baker
 Mrs. Robert Montgomery Bird
 Mr. and Mrs. Paul Blevden
 Mr. and Mrs. Hugh Borton
 Mr. and Mrs. Harold Brecht
 Mr. and Mrs. Carroll T. Brown
 Mr. and Mrs. Henry J. Cadbury
 Mr. and Mrs. William E. Cadbury, Jr.
 Mrs. Richard L. Cary
 Mr. and Mrs. George K. Chandler
 Mr. and Mrs. Aldo Caselli
 Mr. and Mrs. Hayward H. Coburn
 Miss Margaret Conklin
 Mr. O. L. Coward
 Mr. and Mrs. James A. Crawford
 Mr. and Mrs. Carlton Cressman
 Mr. John H. Davison
 Miss Meribah C. Delaplaine
 Mr. and Mrs. William B. Dickinson
 Mr. and Mrs. William R. Dohan
 Mr. and Mrs. Thomas E. Drake
 Mr. and Mrs. Harold Evans
 Mr. William Bacon Evans
 Mrs. McClure Fahnestock
 Dr. and Mrs. Clifford B. Farr
 Mr. John W. Flight
 Miss Kathryn V. Forrest
 Mrs. Corinne Friend
 Mrs. Sara K. Fuller
 Mr. and Mrs. Louis C. Green
 Mr. and Mrs. John F. Gummere
 Mrs. Theodore H. Hart
 Miss Ethel Hastings
 Mrs. John V. Hastings, Jr.
 Mr. and Mrs. John V. Hastings, 3rd
 Mr. and Mrs. Roy A. Helton
 Mrs. John Herndon
 Mr. and Mrs. Howard J. Hogenauer
 Mr. and Mrs. Clayton W. Holmes
 Mrs. Langley S. Homer
 Mr. and Mrs. Allen F. Horton
 Mr. and Mrs. Holland Hunter
 Mr. and Mrs. Ames Johnston
 Miss Mary Hoxie Jones
 Mr. and Mrs. J. Barclay Jones
 Miss Miriam E. Jones
 Mr. and Mrs. John D. Kenderdine
 Mr. and Mrs. George A. Kennedy

Mrs. William M. Kift
 Mr. and Mrs. Alexander Lavery
 Mrs. Arthur Leverkus
 Mr. and Mrs. Robert A. Locke
 Mr. and Mrs. Dean P. Lockwood
 Mrs. J. Henry Longmaid
 Mr. and Mrs. Wallace T. MacCaffrey
 Mrs. Joseph B. McCall
 Miss Virginia A. McCall
 Mr. James P. Magill
 Mr. and Mrs. William M. Maier
 Miss Belle Matheson
 Mr. C. Christopher Morris
 Dr. and Mrs. Stuart Mudd
 Mr. Clarence N. Myers
 Mrs. Carroll B. Nichols
 Mr. and Mrs. Robert S. Noone
 Mr. and Mrs. Cletus O. Oakley
 Mr. and Mrs. Paul W. Ohl
 Mr. and Mrs. Frederic Palmer
 Miss Mary Parsons
 Mr. and Mrs. Clarence E. Pickett
 Mr. and Mrs. Harry W. Pfund
 Mr. and Mrs. L. Arnold Post
 Miss Ida W. Pritchett
 Mrs. Conyers Read
 Mr. and Mrs. G. R. Rebmann, Jr.
 Dr. and Mrs. Jonathan E. Rhoads
 Mr. and Mrs. John F. Rich
 Mr. Charles S. Ristine
 Mr. and Mrs. L. H. Rittenhouse
 Mr. and Mrs. Ralph M. Sargent
 Dr. and Mrs. Lewis C. Scheffey
 Miss H. Louise Searle
 Mrs. Eugene H. Sewall
 Dr. and Mrs. Frederic C. Sharpless
 Mr. Lucius R. Shero
 Miss Mary C. Smith
 Mrs. Earnshaw Smythe
 Mr. and Mrs. Edward D. Snyder
 Mr. F. B. Snyder
 Mr. and Mrs. John P. Spielman, Jr.
 Mr. and Mrs. Herbert W. Starr
 Miss Margaret H. Steen
 Mrs. J. Stoddell Stokes
 Mr. Hugh E. Stone
 Miss Gertrude Stout
 Mrs. Edith C. B. Stuart
 Mr. and Mrs. Allen M. Terrell
 Miss Frances W. Terry
 Mrs. Arthur H. Thomas
 Miss Carol H. Thomas

Dr. and Mrs. Henry M. Thomas, Jr.
Mr. and Mrs. Reynolds Tilden
Mr. and Mrs. W. Wyclif Walton
Mr. and Mrs. W. Nelson West, 3rd
Miss Jeanne L. Wheeler
Miss Elizabeth A. Williamson
Miss Rebecca B. Wistar

\$ 602.50

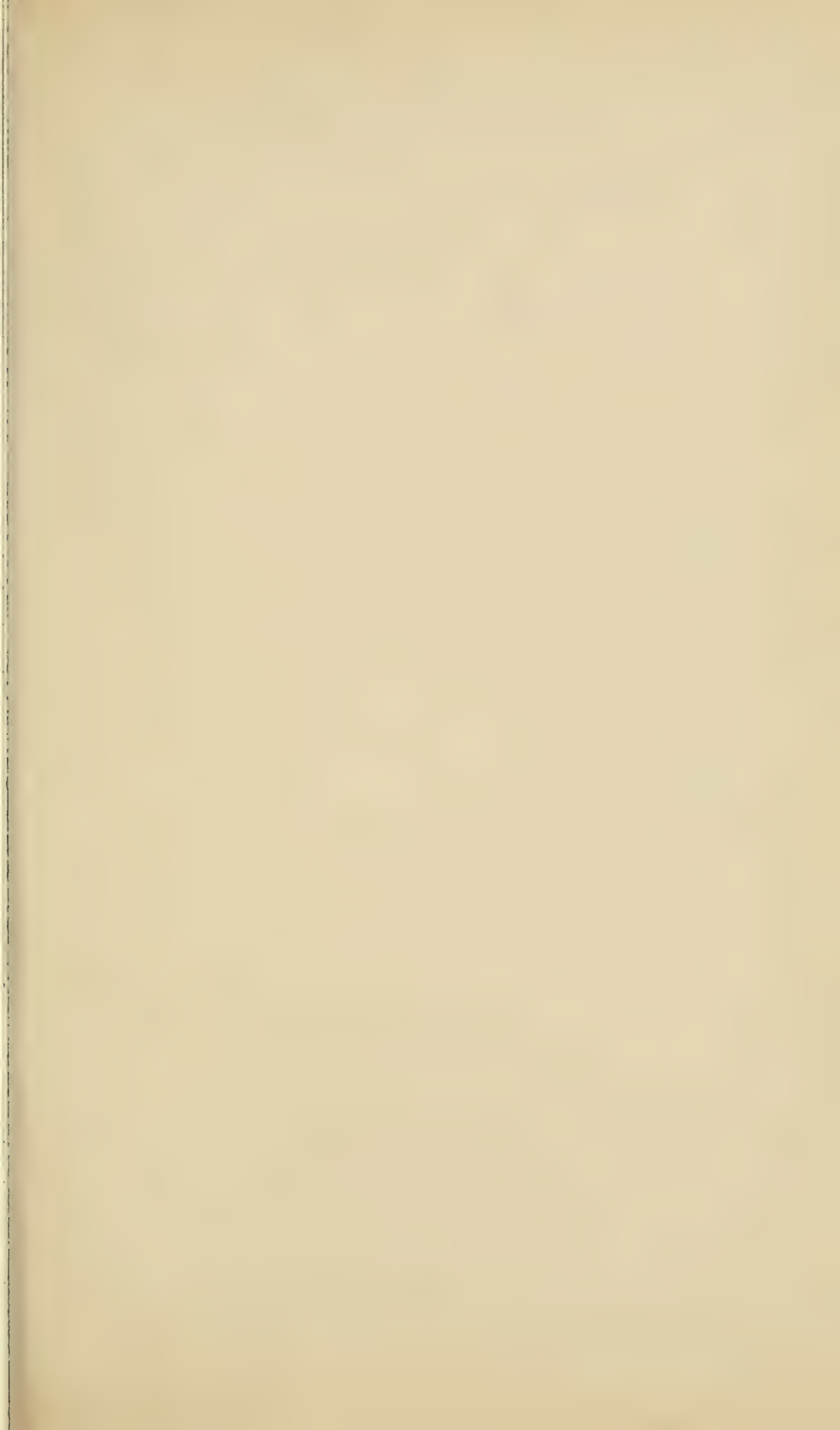
**FOR THE GEORGE TAI
SCHOLARSHIP**

Dean Carpenter
J. Stanton Carson
Howard Comfort
Charles H. Frazier
Harold D. Greenwell
Gaylord P. Harnwell
John Headly
Howard J. Hogenauer
Morris W. Mead
Philip G. Rhoads
Lawrence N. Taylor
W. Wycliff Walton
William Nelson West, III
Donald E. Wilbur

\$ 775.00

Total for Other Donations

\$297,639.59



RECAPITULATION OF DONATIONS ACTUALLY PROCESSED AT THE COLLEGE

Received at Office of the Comptroller

New donations

Reported pp. 78 - 81

\$297,639.59

Class gifts (1909, 1911, 1935,
1936, 1937, 1938)

24,342.63

For equipment - NSF
AEC

1,500.00

9,120.00

Smith, Kline & French

2,500.00

335,102.22

5,304.70

\$340,406.92

Refund of expenses

Received at Development Office

411,399.65

\$751,806.57

CONSOLIDATED AND NON-CONSOLIDATED FUNDS

SUMMARY OF SPECIAL INCOME

Funds for General Purpose	\$ 56,379.96
Funds for Wistar Brown Graduate School	5,230.66
Funds for Morris Infirmary	-
Funds for Haverford Union	-
Funds for Scholarships	56,008.13
Funds for Library	9,972.74
Funds for Old Style Pensions	-
Funds for Special Purpose	5,969.19
From Non-Consolidated Funds	<u>52,356.98</u>
	<u>\$185,917.66</u>
1. Scholarships	\$ 97,697.20
2. Prizes	1,010.80
3. Loan Fund	12,500.-
4. Income to Principal	8,920.67
5. Books and Library	30,749.20
6. Lectures	844.30
7. Religious Education Committee	403.25
8. Plants and Services	1,456.85
9. Equipment and Expenses	458.85
10. Work Camp Fees and Expenses	504.94
11. Travel	13.79
12. Physical Education	90.-
13. Annuities	3,627.50
14. Visitors	16,109.04
15. Miscellaneous	<u>11,531.27</u>
	<u>\$ 185,917.66</u>

SUMMARY OF THE ACCOUNTS OF
THE CORPORATION OF HAVERFORD COLLEGE

WM. MORRIS MAIER, TREASURER

ALDO CASELLI, COMPTROLLER

For the year ending August 31, 1961

RECEIPTS

Income from Endowment Funds Consolidated

Funds for General Purposes	\$ 448,258.66	
T. Wistar Brown Graduate Sch. Fd.	27,084.60	
Morris Infirmary Funds	1,337.01	
Haverford Union Funds	101.62	
Scholarship Funds	37,767.37	
Library Funds	27,294.73	
Old Style Pension Funds	21,461.81	
Special Purposes Funds	8,860.06	\$ 572,165.86

Income from Non-Consolidated Funds

John Farnum Memorial Fund.....	\$ 1,531.26	
Nathan Branson Hill Trust.....	176.21	
W. Percy Simpson Trust.....	1,625.40	
Henry C. Brown Trust	2,845.47	
Augustus Taber Murray Research Scholarship Fund	1,424.61	
Walter R. Faries Scholarship Fund	2,730.00	
Charles Wharton Stork Art Gift Fund.....	324.25	
Wm. Pyle Philips Fund.....	133,840.19	\$ 144,497.39

Income from Current Funds Invested

20,368.67 \$ 737,031.92

Income from College Sources

Tuition	\$ 565,247.50	
Board	208,283.90	
Rooms.....	111,080.00	
Board and Room from non students:		
Rent	\$ 3,750.44	
Rooms: Guests, alumni, faculty and employees	7,713.00	
Meals: Day students.....	3,467.57	
Guests, alumni, faculty and employees.....	24,264.32	
Summer Conferences — Rooms and meals.....	25,175.08	64,370.41
Unit Fee		59,332.50

Miscellaneous Collections

Snack Bar.....	\$ 708.93		
Infirmary	716.51		
Fines.....	539.00		
Transcripts.....	1,096.61		
Bookstore	749.24		
Sale of wood and junk.....	495.00		
Income from gardens and picnics.....	882.75		
Admission to athletic games	1,359.92		
Sundry minor collections	3,465.29		
Admission Fee	5,080.00		
Discounts earned	555.34		
Overhead: Research Projects	9,199.41		
T. A. Benham's Project.....	2,321.10		
Overhead in connection with work done for outsiders.....	114.50		
Overhead granted by certain corporative scholarships	7,100.00		
Rental of Dining Room.....	7,000.00		
From Philips Account for Public Relations Cost.....	3,000.00	\$ 44,383.60	\$1,052,697.91

Forward \$1,789,729.83

Forward		\$1,789,729.83
<u>Interest Received</u>		1,547.31
<u>Donations for Additions to Funds</u> (as per schedule)		451,462.29
<u>Donations other than Funds</u>		
<u>For General and Special Purposes</u>		
From Esso Foundation	\$ 5,000.00	
From Wm. Maul Measey Trust	7,224.28	
From Harrison Hires	100.00	
From Caroline Newton	600.00	
From Philadelphia Quartz Co.	5,000.00	
From Grant Morrow, III	100.00	
From Lindback Foundation	1,000.00	
From E. I. duPont de Nemours Co.	1,500.00	
From Foundation for Independent Colleges.....	9,188.61	
From N. W. Ayer & Son	100.00	
From Sundry gifts for Special Purposes.....	330.00	\$ 30,142.89
<u>For Scholarships</u>		
From Board of City Trusts	300.00	
From Friends Freedmen's Association	3,200.00	
From National Merit Corp.	8,200.00	
From Sears Roebuck Foundation	400.00	
From Glidden Co.	300.00	
From General Motors Corp.	5,555.00	
From Haverford Society of Maryland	93.00	
From National Honor Society.....	500.00	
From Bishops Fund, Diocese of Pa.	2,311.78	
From Newspaper Fund	500.00	
From Kenilworth P. T. A.	100.00	
From University of Buffalo	450.00	
From City of Phila. — Mayor's Office	100.00	
From Mendenhall Memorial Foundation	300.00	
From Yale University	650.00	
From Rotary Club of Harrisburg	250.00	
From Rennselaer Polytechnic Institute.....	700.00	
From Swampscott Public School.....	200.00	
From Union College.	500.00	
From African-American Institute	2,499.88	
From Haverford College Service Fund	2,609.00	
From Haverford College Student Assn.	618.27	
From Public Welfare	1,000.00	
From Biddle, Paul, Dawson & Yocum.....	1,675.00	
From Lindback Foundation	1,000.00	
From Litchfield County University Club.....	200.00	
From Union Carbide Corp.	2,025.00	
From Scott Paper Foundation	3,000.00	
From Philadelphia Board of Education	2,600.00	
From Sundry Givers	775.00	\$ 42,611.93
<u>For Library and Books</u>		
From S. Emlen Stokes	1,500.00	
From Morris M. Wexler	100.00	
From H. Cheyette	100.00	
From Wm. Bradfield	60.00	
From Library Associates	602.50	
From Margaret Conklin	100.00	
From Eric Harrison	25.00	
From Beta Rho Sigma	50.00	
From Matzke Royalties	22.77	
From Eleanor Kittridge	250.00	
From George Matheus	15.00	
From Class of 1958	300.00	
From Shoemaker Foundation.....	3,000.00	\$ 6,125.27

Forward \$2,242,739.43

Forward \$2,242,739.43

Donations other than Funds — (continued)

For Music

From Friends of Music.....	\$	767.50	
From College Budget.....		33.31	\$ 800.81

For Radio Club

From Interest.....			99.12
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For Student Loans (Stiles Fund)

Repayments.....			1,829.47
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For Prizes

From Anonymous.....			100.00
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For Cope Field

From Anonymous.....			25.00
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For Campus Club

From Dr. J. Kimmich.....			10.00
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For Equipment of Plant

From E. I. duPont de Nemours & Co.	\$	2,500.00	
From A. E. C.		9,120.00	
From Smith, Kline & French Fdn.....		2,500.00	14,120.00

For Conference on Able Students

From Carnegie Corp.			26,500.00
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For Non-Western Studies

From Ford Foundation.....			68,000.00
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For Faculty Projects

From Shell Co.	\$	1,500.00	
From National Institute of Health.....		33,824.68	
From Social Science Research Council.....		10,000.00	
From National Science Foundation.....		47,385.00	
From American Chemical Society.....		2,620.00	
From A. E. C.		6,042.00	
From College Budget.....		1,500.00	
From Council on Economics Affairs.....		2,000.00	104,871.68

For Class Anniversary Gifts

From Classes.....			24,342.63
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For I. B. M. Laboratory

From College Budget.....			14,000.00
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For Drinker Hall

From Henry S. Drinker.....		4,968.75	
From Mrs. W. S. Davison.....		200.00	5,168.75

For Alumni Association

From Alumni Association.....		6,690.00	
From Annual Giving.....		97,600.00	104,290.00
			443,037.55

Additions to Funds — Income Transferred to Principal

1949 Campaign Salary Fund.....			1,222.13
Rufus M. Jones Fund for Advancement of Teaching.....			2,439.27
J. Horace Cook Fund.....			578.56
Moses Brown Fund.....			2,708.46
Isaac Thorne Johnson Scholarship Fund.....			118.53
1949 Campaign Scholarship Fund.....			319.25
			7,386.20

Forward \$2,685,776.98

Forward		\$2,685,776.98
<u>Additions to Funds — Income transferred to Principal — (continued)</u>		
	\$	7,386.20
Max Leuchter Scholarship Fund		420.35
Mary Farnum Brown Fund		31.87
1949 Campaign Library Fund		238.23
George Peirce Prize Fund		292.49
Jacob & Eugenie Bucky Memorial Foundation		28.55
Mathematics Department Prize Fund		78.37
Augustus Taber Murray Research Scholarship Fund		444.61
		8,920.67
<u>Reserve for Non-Faculty Pensions (see account)</u>		
Pensions	12,935.00	
Interest	2,858.05	15,793.05
<u>Death Benefit for Non-Faculty (see account)</u>		
Annual appropriation		1,000.00
<u>Faculty Research Fund</u>		
From Refund	450.00	
From Budget (College)	5,000.00	
From Shell Company	500.00	5,950.00
<u>Medical Reimbursement Plan</u>		
From College Budget	5,000.00	
From Advances made and recovered	1,250.00	6,250.00
<u>Miscellaneous Items to Balance Accounts</u>		
Library Replacements	5,077.85	
Skating Pond	349.60	
Taxes Withheld	208,387.38	
Sales Tax Collections	2,721.81	
In and Out	1,739.76	
Collections from Faculty, Students and Others for Work Done	3,805.94	
Student Store — Gross Sales	22,334.63	
Loans Repaid	2,300.00	
Student Affairs	339.61	
Bookstore — Collections	73,298.31	
Accounts Receivable — Students	1,088,053.79	
Accounts Receivable — Others	82,981.75	
Accounts Receivable — U. S. Government	24,532.45	
Wm. Maul Measey Trust	36,121.41	
Property Maintenance & Replacement	4,074.49	
Treasurer's In & Out	31,636.17	
Over & Short	16.07	1,587,771.02
<u>Items Relating to Other Fiscal Years</u>		
Advance Receipts for Following Year	10,663.65	
Rooms Paid in Advance	7,359.08	
Expenses for Following Year	71,771.23	
Prepaid Insurance	13,059.90	
Inventories	12,803.41	
Accounts Payable	67,973.66	183,630.93
<u>Investments Realized</u>		
<u>Consolidated Investments</u>		
Bonds — Government	\$ 207,476.25	
Industrial	44,421.51	
Public Utility	72,491.26	
Railroad	70,952.71	
Inst. of the Govt.	51,062.50	
Preferred Stock — Industrial	78,811.65	
Public Utility	133,232.29	
	658,448.17	

Forward \$4,495,092.65

Forward \$4,495,092.65

Consolidated Investments — (continued)

	\$ 658,448.17	
Common Stock — Banks & Insurance	123,661.66	
Industrial	290,610.65	
Public Utility	272,246.71	
Railroad	4,488.92	
Mortgages — Payments Made	9,585.46	
College Real Estate	19,684.13	
Miscellaneous	788.57	\$1,379,514.27

Non-Consolidated Investments

Wm. Pyle Philips Investments

Bonds — Public Utility	4,011.20	
Railroad	8,000.00	
Common Stock — Banks & Insurance	60.39	
Industrial	143,332.27	
Public Utility	274.11	155,677.97

Augustus Taber Murray Research Scholarship Fund 1,000.00 \$1,536,192.24

Money Borrowed — Temporarily 190,000.00

Balances September 1, 1960

Treasurer's Account	8,186.69	
President's Account	35,429.65	43,616.34
TOTAL RECEIPTS		\$6,264,901.23

EXPENDITURES

Expenses of Running the College

Administration

Salaries	\$ 155,570.96	
Supplies & Postage	11,605.37	
Services	2,335.46	
Telephone & Telegraph	2,771.27	
Replacement & Repair	2,534.44	
Additional Equipment	1,340.35	
Taxes	3,044.12	
Insurance	524.50	
Traveling	4,458.84	
Public Relations	9,565.15	
Printing	10,416.09	
Entertainment	5,497.57	\$ 209,664.12

Educational Departments

Salaries	691,006.13	
Supplies & Postage	82,044.70	
Services	32,240.38	
Telephone & Telegraph	5,415.00	
Replacement & Repair	3,738.68	
Taxes	12,574.87	
Insurance	2,185.02	
Traveling	3,464.80	
Not Elsewhere Classified	6,582.79	839,252.37

Maintenance & Operation

Salaries	149,761.26	
Supplies	16,401.77	
Contracts	22,896.62	
Water, Heat, Light & Power	25,634.69	
Telephone	913.52	
Replacement & Repair	33,693.18	
Additional Equipment	3,176.67	
Taxes	13,579.99	
Insurance	7,439.21	
Not Elsewhere Classified	37,053.40	310,550.31

Kitchen

Salaries	\$ 77,568.35	
Supplies	129,259.53	
Services	18,679.68	
Water, Heat, Light & Power	9,118.27	
Telephone & Telegraph	230.98	
Replacement & Repair	11,085.56	
Taxes	1,955.59	
Insurance	254.09	
Traveling	169.80	\$ 248,321.85

Development

Salaries	22,497.37	
Supplies	11,496.81	
Services	2,263.12	
Telephone & Telegraph	866.56	
Replacement & Repair	368.12	
Taxes	965.23	
Insurance	172.55	
Traveling	261.23	
Not Elsewhere Classified	(70.43)	\$ 38,820.56
		\$1,646,609.21

Miscellaneous Expenses

Treasurer's, Secretary's, Board, Legal Expenses and		
Services	14,976.31	
Old Style Pensions	16,300.01	
Interest	2,957.17	
Working Aid to Students	7,292.19	
Pensions to Non-Faculty and Reserve	12,935.00	
Reserve for Death Benefit for Non-Faculty	1,000.00	55,460.68

Expenditures from Income of FundsFrom General Funds

For Scholarships	39,575.00	
For Prizes	65.00	
For Loan Fund	12,500.00	52,140.00

From T. Wistar Brown Graduate School

For Fellowships	2,522.20
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From Scholarship Funds

For Scholarships	55,150.00	
For Annuities	2,647.50	57,797.50

From Library Funds

For Books	9,702.64
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From Special Purposes Funds

For Scholarships	450.00	
For Prizes	945.80	
For Books & Library	402.00	
For Lectures	844.30	
For Religious Education Committee	403.25	
For Plants & Services	1,456.85	
For Strawbridge Observatory	458.85	
For Work Camp	504.94	
For Travel	13.79	
For Physical Education	90.00	5,569.78
		127,732.12

From Augustus Taber Murray Research Scholarship Fund

For Annuities	980.00
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Expenditures from Principal of Funds

For Old Style Pensions	7,325.00
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Forward \$1,838,107.01

Forward \$1,838,107.01

Expenditures from Wm. Pyle Phillips Fund — Special

For Books	\$ 20,644.56	
For Visitors	16,109.04	
For Miscellaneous	11,531.27	\$ 48,284.87

Expenditures from Donations other than Funds

For Scholarships	39,680.82
For Music	800.81

For Books & Library:

Books	\$ 697.20	
Library Replacement	1,935.00	
Honoraria	250.00	
Miscellaneous	390.22	
Salaries	1,257.98	4,530.40

For Prizes	100.00
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For Loans (Stiles Fund)	450.00
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For Lunt Memorial	2,790.21
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For Special Purposes:

Honoraria	970.16	
Miscellaneous	325.00	
Biology Installation	905.50	
Travel of Faculty	340.77	
Chemistry Replacement	500.00	
Faculty Research	500.00	
Faculty Summer Study	3,742.49	7,283.92

For Conference for Able Students

Preparatory Meetings and Buck Hill Falls Conference	17,420.21
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For Equipment of Educational Departments

Chemistry	5,898.63	
Mathematics	109.65	
I. B. M.	281.14	
Music (Drinker Hall)	14,803.54	
Physics	4,314.73	25,407.69

For Non-Western Studies

Salaries, Participants and Visitors	26,881.20	
Bryn Mawr	10,220.48	
Swarthmore	20,260.98	57,362.66

For Research in Public Affairs

Grants and Salaries	6,604.70
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For Faculty Projects

Somers	19,788.61	
Santer	12,748.20	
Loewy	22,332.13	
Finger	8,978.75	
Finger & Santer	845.37	
Santer & Green	7,477.36	
Williams	1,970.66	
Dunathan	3,269.02	
Heath	8,663.31	
Selove	7,530.64	
Hare	441.20	
Undergraduates	2,738.28	96,783.53

For Alumni Association Support

Salaries	6,690.00	
Support	17,035.73	23,725.73
		282,940.68

Forward \$1,886,391.6

Forward			\$1,886,391.88
<u>Expenditures from Donations other than Funds — (continued)</u>	\$ 282,940.68		
<u>For Class Anniversary Gifts</u>	150.00		
<u>For Future Projects (Development Office)</u>	108,756.71		
<u>Faculty Research Fund</u>			
Paid for various projects	5,558.05		
<u>Medical Reimbursement Plan</u>			
Benefits Paid	3,000.31		
<u>Non-Faculty Pensions</u>			
Pensions Paid	4,405.34		
<u>Death Benefits for Non-Faculty</u>			
Benefit Paid	500.00	405,311.09	
<u>Income Transferred to Principal</u>			
(see receipts for items)		8,920.67	
<u>Miscellaneous Items to Balance Accounts</u>			
Library Replacements	2,439.09		
Skating Pond — Operating Costs	178.05		
Taxes Withheld — Paid	205,459.60		
Sales Tax — Paid	2,728.74		
In and Out	2,701.39		
Work in Progress	3,805.94		
Student Store Expenses	21,587.65		
Student Affairs	786.95		
Bookstore — Operations & Purchases	72,981.57		
Accounts Receivable from Students — Charges	1,088,067.97		
Accounts Receivable from Others — Charges	200,495.47		
Accounts Receivable from U. S. Govt. — Charges	23,321.92		
Wm. Maul Measey Trust — Student Aid Applied	37,325.00		
Treasurer's In & Out — Transferred to Proper Accounts	20,341.01		
Over & Short	168.04	1,682,388.39	
<u>Items Relating to other Fiscal Years</u>			
Advance Receipts — Applied	8,328.02		
Rooms Paid in Advance — Applied	7,071.48		
Expenses for following years — Applied	48,834.16		
Prepaid Insurance	22,504.90		
Accounts Payable	97,208.85		
Inventories	13,210.87	197,158.28	
<u>Investments Made or Donated</u>			
<u>Consolidated Investments</u>			
<u>Bonds — Government</u>	\$ 243,069.49		
Industrial	81,201.25		
Public Utility	223,682.50		
Railroad	18,865.00		
<u>Preferred Stock — Industrial</u>	7,375.00		
Public Utility	4,112.50		
<u>Common Stock — Banks & Insurance</u>	105,803.26		
Industrial	901,992.02		
Public Utility	60,588.55		
Railroad	77,903.49		
<u>Mortgages</u>	16,000.00		
<u>College Real Estate</u>	30,146.03	1,770,739.09	
Forward			\$4,180,170.31

Forward			\$4,180,170.31
<u>Investments Made or Donated — (continued)</u>			
<u>Non-Consolidated Investments</u>			
<u>Wm. Pyle Philips Investments</u>			
<u>Bonds</u> — Industrial.....	\$	99,243.75	
Railroad		31,966.25	
<u>Common Stock</u> — Industrial.....		24,787.94	
Public Utility		<u>2,130.00</u>	\$ 158,127.94
A. T. Murray Research Scholarship Fund.....		<u>983.69</u>	\$1,929,850.72
Balances August 31, 1961			
Treasurer's Account.....		91,624.99	
President's Account		<u>63,255.21</u>	<u>154,880.20</u>
TOTAL RECEIPTS			<u>\$6,264,901.23</u>

REPORT NO. 35 OF "LOAN FUND"

ESTABLISHED IN 1926

Cash Balance on Hand August 31, 1960	\$ 3,378.70
Transferred from Scholarship Funds	11,070.02
4 Loans Repaid During Year	1,609.81
13 Partial Payments on Loans During the Year.....	1,339.18
Interest Received During the Year	704.14
	<hr/> 18,101.85

Operating Expenses

26 Loans Made During the Year	\$ 11,361.52
Repayment of Advance From Corporation of Haverford College	5,000.00
Cash on Hand August 31, 1961	1,740.33
Loans Outstanding August 31, 1961	31,494.14
Interest Outstanding August 31, 1961	1,882.57
	<hr/> \$ 35,117.04

TOTALS TO AUGUST 31, 1961

Gifts and Donations	\$ 28,131.14
468 Loans Repaid	78,387.65
627 Payments on Loans	32,003.32
Interest Paid Up	19,373.39
Other Sundry Collections	50.02
Advance Received from Corporation of Haverford College	5,000.00
Transferred from Scholarship Funds	11,070.02
	<hr/> \$ 174,015.54

Repayments of Gifts and Donations	\$21,707.75	
Less on Funds & Merion Title & Trust Co.	582.01	
Expenses	254.54	
Loans Granted	144,730.91	
Repayment of Advance to Corporation of Haverford College.....	5,000.00	172,275.21
Cash Balance on Hand August 31, 1961		1,740.33
Outstanding Interest to August 31, 1961		1,882.57
Outstanding Loans to August 31, 1961		31,494.14
		<hr/> \$ 35,117.04

WILLIAM MAUL MEASEY TRUST

This Trust was established by William Maul Measey by Agreement dated June 27th, 1952 and supplementary Agreement dated April 26th, 1956.

The Trust Agreements provide that the income shall be granted as aid to students without restriction as to sex, race or religious affiliation, in selected secondary schools or colleges, who on the basis of character, scholarship and financial situation, merit assistance in continuing their education.

In secondary schools aid is to be given to students who live in the institutions during school terms, and not to day students.

The Capital of the Trust is to be invested solely in common or ordinary corporate shares.

At the request of the donor this is the only statement made of this Trust.

WILLIAM MAUL MEASEY TRUST

FINANCIAL STATEMENT

9/1/60 — 8/31/61

Book Value of Trust 9/1/60	\$1,208,928.72
Increase in Trust by Realized Capital Gains	10,389.32
Book Value of Trust 8/31/61 (less than market value)	<u>\$1,219,318.04</u>

CASH STATEMENTS OF RECEIPTS & EXPENDITURES

Principal

Cash Balance 9/1/60	\$ 1,682.39
Investments Realized	\$ 94,085.52
	<u>\$ 95,777.91</u>
Investments Made	\$ 92,691.85
Cash Balance 8/31/61	\$ 3,086.06
	<u>\$ 95,777.91</u>

Income

Receipts, Disbursements and Reserves

<u>Income</u> from Investments and Reserves — 9/1/59 to 8/31/60	\$ 74,345.55
<u>Disbursements</u> 9/1/60 to 8/31/61	
To Haverford College for Administration of Trust	\$ 7,224.28
To Haverford College for Aid to 63 Students	36,121.41
To Other Colleges for Aid to 3 Students	2,250.00
To Secondary Schools for Aid to 53 Students	25,700.00
Reserve — 8/31/61 Available to Other Colleges and Secondary Schools	3,049.86
	<u>\$ 74,345.55</u>

In order that the income available from the Trust for aid to students may be known at the beginning of each fiscal year, such income is accumulated and not awarded nor disbursed until the following year.

The net income during the fiscal year from 9/1/60 to 8/31/61 amounted to \$73,021.31, of which under the terms of the Trust, The Corporation of Haverford College is entitled to 10% expenses of administration.

TRUST FUNDS

W. PERCY SIMPSON TRUST

Provident Trust Co. and William J. Clark Trustees

This perpetual Trust was established under the will of W. Percy Simpson, Class of 1890, who died Second Month 19, 1938. The will provides that one fourth of the net income from the residuary estate, after the death of his widow (who died in 1940) and of his son (who died in 1946), shall go to two grandchildren, and of the remaining three quarters one tenth shall go to Haverford College. Thus Haverford's share of the income now is 3/40th. The income comes partly from securities but largely from Texas Oil Royalties and rentals. Of the present income as estimated by the Trustees, Haverford's share is about \$1,875 per annum.

The will further provides "without imposing any obligation upon Haverford College, I recommend to it the advisability of expending the moneys which shall from time to time come to it under this will or so much thereof as may be required, for the examination and analysis of applicants for admission to the College with respect to their mental, physical and general qualifications, and of students therein for the purpose of determining the field of activity best suited to the individual."

The will further provides that whenever a vacancy shall occur by the death or resignation or otherwise of the individual Trustee, the selecting of a new Trustee shall be done by the governing body of Haverford College, and that if the College fails to perform this duty, the payment of further income to it shall terminate.

HENRY C. BROWN TRUST

Pennsylvania Co. for Banking and Trusts, Trustee

Founded Eighth Month 18, 1948, by bequest of estimated value of \$183,000 from Henry C. Brown, of Philadelphia, ex Class of 1866, to the Pennsylvania Co., in trust for benefit of Haverford College. The will provides that the income is to be used for current expenses. The will further provides that "the said College shall have power in its discretion to use a portion of the principal of the said trust estate not exceeding in any one year twenty per cent of the original fund for permanent purposes such as buildings, books and equipment proper for conducting the work of instruction and education."

NATHAN BRANSON HILL TRUST

Founded in 1904 by deposit with First National Bank and Trust Company of Minneapolis, Minn., Trust, of a paid up life insurance policy for \$5,000 by Samuel Hill, '78, being in memory of his father, Nathan Branson Hill. The income is to be used to aid in the maintenance of Haverford College so long as it shall remain under the auspices of the Society of Friends. In 1931 Samuel Hill died and the policy realized \$5,039. The Trust is to remain in the care of the above named bank, now known as First National Bank of Minneapolis, until twenty-one years after the death of Samuel Hill's son, James N. Hill, who is still alive. At that time, the Trust is to terminate and the principal is to be vested in Haverford College absolutely.

MARY FULLER COOK TRUST

Girard Trust Corn Exchange Bank, Trustee Under Deed, Dated July 29, 1948

This perpetual trust created by deed of Mary Fuller Cook, who died April 25, 1955, widow of J. Horace Cook, Class of 1881, became operative in so far as the college is concerned, July 14, 1957, upon death of a life tenant.

The income from this trust is to be added to that from J. Horace Cook Fund "subject to the provisions of that Fund, but with the understanding that if, in the judgment and discretion of the authorities of the college, such income shall be needed for purposes of the college other than scholarships, the college shall be free to so use it."

ENDOWMENT FUNDS

FUNDS FOR GENERAL PURPOSES

GENERAL ENDOWMENT FUND

Founded in 1847 with subscriptions of \$50,000 by a number of Friends. Additions were made as follows: 1868, from an anonymous source, \$5,000; 1869, bequest of Ann Haines to increase the compensation of professors, \$2,670; 1870, bequest of Richard D. Wood, \$18,682.96; 1872, from William Evans, \$1,000; 1874, from executors of Jesse George, deceased, \$5,000; 1880, bequest of Dr. Joseph W. Taylor, \$5,000; 1901, legacy of Ann Williams, \$2,425.50; 1941, from children of Aubrey C. Dickson in his memory, \$300; 1954, Maria Luisa Gildemeister, \$500; 1955, Estate of Elizabeth S. Dillinger, through Bessie Kohne Schenck, \$3,000. Present book value, **\$106,302.64**. The income is used for salaries and scholarships.

JOHN FARNUM MEMORIAL FUND

Founded in 1878 by the heirs of John Farnum by gift of \$25,000 as a memorial to him. Added to in 1899 by legacy of \$10,000 from Elizabeth H. Farnum, widow of John Farnum. The income only is to be used to endow a "professorship of some practical science or literature." The chair of chemistry was designated as the "John Farnum Professor of Chemistry." The principal is held in the name of three Trustees for the benefit of The Corporation of Haverford College. Present book value, **\$31,741.22**.

JOHN M. WHITALL FUND

Founded in 1880 by bequest of \$10,000 from John M. Whitall, Sr. Present book value, **\$10,640.09**. The bequest is upon the condition that the art of drawing, especially mechanical drawing, shall be taught, and the income only is to be used, and for this purpose.

DAVID SCULL FUND

Founded in 1885 by bequest of \$40,000 from David Scull, Sr. Present book value, **\$44,806.59**. The income only is to be used to endow a professorship. The chair of biology was designated as the "David Scull Professor of Biology."

EDWARD L. SCULL FUND

Founded in 1865 by net bequest of \$9,500 from Edward L. Scull, '64. The legacy was added to the General Endowment Fund, but in 1888 it was set apart as a separate fund. Present book value, **\$11,364.35**. The income only is to be used. The bequest is free from any legally binding conditions, but it was the testator's desire "that some judicious means shall be employed by the Managers to further advise students on the subjects of diet and reading."

WISTAR MORRIS MEMORIAL FUND

Founded in 1892 by gift of \$5,000 in bonds by Mary Morris, widow of Wistar Morris, as a memorial to him. There are no restrictions. The income is used for general college purposes. Present book value, **\$5,144.24**.

ISRAEL FRANKLIN WHITALL FUND

Founded in 1896 by net legacy of \$9,667.83 from Israel Franklin Whitall. Present book value, **\$10,781.94**. The income only is used for the payment of professors or teachers.

JACOB P. JONES ENDOWMENT FUND

Founded in 1897 by residuary legacy of Jacob P. Jones. This amounted when received to par value of \$279,021.60; book value, \$332,301.60, and sundry real estate. The real estate has all been sold, netting \$847,709.92. Present book value, \$1,301,375.34. The income only is to be used for general college purposes, and out of said income there shall be admitted a portion at least of the students either free of charge or at reduced rates. In accordance with this provision, about \$7,500 per annum is used for scholarships, and the balance of income for general college purposes. Jacob P. Jones will contains the following: "My hope is that under the blessing and favor of God there will come from this source a revenue which shall be productive of growth and vigor in the institution as well as help at this critical period of their lives to many deserving young men of slender patrimony."

JOHN FARNUM BROWN FUND FOR THE STUDY OF THE BIBLE, BIBLICAL HISTORY AND LITERATURE, PHILOSOPHY, AND KINDRED SUBJECTS

Founded in 1900 by the late T. Wistar Brown as a memorial to his son, John Farnum Brown, '93. The original gift was in cash and securities of a par value of \$43,000, shortly afterwards increased by further gifts of \$15,000. The founder made further gifts of cash and securities until 1915, the total being \$19,381 cash and \$48,500 par of securities with book value of \$41,490. His total gifts therefore had a book value of \$234,970.81. Of this, \$5,000 donated in 1910 is for endowment of prizes in Biblical History and in Philosophy. A portion of the income was capitalized each year to keep intact the full value of the fund until 1940 when this fund was included in the Consolidation of funds. Present book value, \$275,899.76. The income only is to be used for the purpose of making provision for the regular study of the Bible and Biblical History and Literature, and as way opens for religious teaching. In 1910, the scope and title of the Fund were enlarged to include "and Philosophy and Kindred Subjects." Income up to \$200 may be used for prizes in Biblical Literature and Philosophy.

CLEMENTINE COPE ENDOWMENT FUND

Founded in 1904 by bequest of \$25,000 from Clementine Cope. There are no restrictions. The income is used for general college purposes. Present book value, \$21,493.67.

JOSEPH E. GILLINGHAM FUND

Founded in 1907 by bequest of \$50,000 from Joseph E. Gillingham. The testator said, "I request, but I do not direct, that part of the income of this legacy may be used for free scholarships for meritorious students." In accordance with this request, \$800 was until recently appropriated annually from the income for scholarships, the balance being used for general college purposes. Present book value, \$42,394.72.

ELIZABETH H. FARNUM FUND

Founded in 1891. The original principal of this fund, amounting to \$10,000, was held by the Provident Trust Co. of Philadelphia under a deed of trust created by Elizabeth H. Farnum of Philadelphia. The income was first paid to a life tenant until 1914, when income first accrued to the College "for the payment of the salaries of teachers and professors by the said College employed." Under date of Ninth Month 18, 1944, upon petition of the Trustee, concurred in by the College, the Court of Common Pleas awarded the principal to the Corporation of Haverford College "to be administered by it for the purposes set forth in the deed of trust in accordance with the non-profit corporation law." Present book value, \$9,160.24

JAMES R. MAGEE FUND

Founded in 1915 by bequest of \$10,000 from James R. Magee, '59, and added to in 1925, 1926, 1928, 1929, 1930, 1931, 1932, 1936, 1937, 1940, and 1944 by additional payments of \$29,182.84, \$1,694.84, \$499.31, \$499.68, \$488.85, \$207.33, \$400, \$250, \$100, \$449.89, \$175.00, 197.99 (1947-48) and \$7.40 (1948-49), under his legacy. Present book value, \$45,035.96. There are no restrictions except that the income only is to be used. This is applied to general college purposes.

ALBERT K. SMILEY FUND

Founded in 1915 by gift of \$1,000 from Daniel Smiley, '78, as a memorial to his brother, Albert K. Smiley, '49, and added to in 1924 and 1926. Present book value, \$1,500.00. There are no restrictions except that preference was expressed that the income only should be used. This is applied to general college purposes.

THE HINCHMAN ASTRONOMICAL FUND

Founded in 1917 by bequest of \$10,000 par value securities from Charles S. Hinchman. Increased in 1928, 1929, 1930, 1931, 1932, 1933, 1934, 1935, and 1936 by donations of \$28,926.95 from a friend of the College. Present book value, \$39,515.48. The income only to be used "to increase the salary of the astronomical professorship so as to provide a suitable instructor in the ennobling study of the heavens."

WALTER D. AND EDITH M. L. SCULL FUND

Founded in 1918 by bequest of Walter D. Scull, whose death followed shortly after the death of his sister, Edith M. L. Scull. Each left his or her estate to the other, unless predeceased; in this latter case both American estates were left to Haverford College. Both were children of Gideon D. Scull, '43, and resided in England. Income accumulated before the receipt of the fund by the College amounted to \$16,887.66, of which \$15,078.51 was added to the

principal of the fund. Present book value, \$174,560.31. The fund was created to establish a professorship of modern English constitutional history, and the chair has been designated as the Walter D. and Edith M. L. Scull Professorship of History.

ALBIN GARRETT MEMORIAL FUND

Founded in 1919 by legacy of \$25,000 from Mary Hickman Garrett, in memory of her late husband, Albin Garret, '64. Present book value, \$26,771.00. There are no restrictions. The income is used for general college purposes.

ARNOLD CHASE SCATTERGOOD MEMORIAL FUND

Founded in 1919 by gift of \$30,000 in securities from Maria Chase Scattergood in memory of her son, Arnold Chase Scattergood, of the Class of 1919, who died in his Junior year. The income only is to be used toward the payment of professors' salaries. Present book value, \$24,381.59.

FRANCIS B. GUMMERE MEMORIAL FUND

Founded in 1920. This fund was started by a gift of \$25,000 from the late Miss Emily H. Bourne, of New York, conditional upon the raising of \$100,000 additional for an endowment of the Chair of English Literature in memory of her friend, Professor Francis Barton Gummere. A committee of alumni, consisting of J. Stogdell Stokes, '89, chairman; E. R. Tatnall, '07, treasurer; Hans Froelicher, '12, secretary; Charles J. Rhoads, '93; Alfred M. Collins, '97; Winthrop Sargent, Jr., '08, and Parker S. Williams, '94, working with President Comfort, organized a comprehensive campaign among the alumni and friends of the College to raise \$375,000 for this purpose and for increase of professors' salaries; the first \$100,000 of unspecified gifts was used to complete the Francis B. Gummere Memorial Fund to at least \$125,000, and the balance comprised the Isaac Sharpless Memorial Fund. Total, book value, \$125,569.51.

ISAAC SHARPLESS MEMORIAL FUND

Founded in 1920. The alumni of the College conducted during 1920 a campaign for \$375,000 additional endowment for the College to make possible additional salaries to the professors. Appeal was made to found two new funds, the Francis B. Gummere Memorial Fund and the Isaac Sharpless Memorial Fund. The funds received, except where otherwise specified, were first applied to the completion of the former up to \$125,000 (see above). Specified gifts and donations thereafter received, were then applied to the Isaac Sharpless Memorial Fund. The income only is to be used for salaries of professors. Total book value, \$218,728.43.

GENERAL EDUCATION BOARD FUND

The General Education Board of New York appropriated \$125,000 in 1920 to the campaign for increase of endowment when the Francis B. Gummere Memorial Fund and the Isaac Sharpless Memorial Fund, totaling \$375,000, were raised. Interest at five per cent was paid on the full sum for three years, and the \$125,000 in full payment was completed in 1926-1927. Total book value, \$126,076.83.

HAVERFORD IMPROVEMENT FUND AND CONSOLIDATED CAMPUS HOUSES ACCOUNT

Founded in 1922 to hold the Corporation's undivided share in College Lane land and eight houses. This property was turned over to the Corporation free of debt on Third Month 17, 1922, and with same the then debt of the Corporation amounting to \$155,942.15 was liquidated. The fund started with an

undivided interest of \$19,000. There was added in 1922, \$9,000; and in 1925, \$2,000. In 1926, \$5,000 of this fund was sold and the proceeds were appropriated for the alterations to Roberts Hall. The balance of this fund, \$25,000, was also used in 1927 for the same purpose. The income was used for general college purposes.

The College Lane land was purchased in 1886 for the benefit of the College by David Scull, Justus C. Strawbridge, Richard Wood and Francis Stokes, Managers of the College and now all deceased. With contributions raised by them and by mortgages on which they went on the bonds, funds were raised to build six dwelling houses, and two houses were built by the Corporation itself. From the income of the houses the debt against the properties was gradually reduced until it was entirely liquidated in 1919. The net income from 1919 until 1922, when the property was turned over to the Corporation, was applied toward the reduction of the Corporation's debt.

As of Ninth Month 1, 1944, all of these eight College Lane houses, together with seven houses which had been bought for the College and formed a part of the College debt, and nine other Campus houses which were owned free of debt, were consolidated at a combined valuation of \$281,331.70 into a new Campus Houses Account held by Consolidated Investment Account. There have been additional investments in other College houses from time to time and the present book value is \$628,760.67. Amortization of 1½% is to be applied to the annual reduction of the investment.

WILLIAM PENN FOUNDATION

Started in 1926 toward a fund of \$120,000 to establish a chair or lectureship in Political Science and International Relations. This fund forms a part of the Centenary program to raise \$1,000,000. This foundation is to be devoted, at the discretion of the Managers, to providing adequate undergraduate instruction in the theory and practice of our own and other governments, in the history of past attempts to secure international agreements and in the methods by which good international understanding may be promoted and maintained. Book value to date, \$102,067.43.

WALTER CARROLL BRINTON MEMORIAL FUND

Founded in 1920 by gift of \$5,000 by the family of Walter Carroll Brinton, Class of 1915, who died in France Twelfth Month 8, 1918, while engaged in Friends' Reconstruction Work. The fund sustained the Walter Carroll Brinton Scholarship until 1926-1927. It was then increased \$6,000 by further gifts of the founders, and at their request the purpose was changed from a scholarship fund to form a separately named fund of the William Penn Foundation, with its income to be used for the same objects. Present book value, \$14,125.79.

CORPORATION FUND

Founded in 1928 by setting aside \$70,000 of proceeds from sale of 5.811 acres of land on the southern boundary and at the southeastern corner of the College farm. In 1937, the fund was increased \$8,810, being proceeds of the sale of 1.762 acres of land to the Philadelphia Skating Club and Humane Society for their new ice skating rink. In 1951 the fund was increased by \$4,994.50, being proceeds of the sale of .284 acres of land to Philadelphia Electric Co. In 1953-54 the cost of renovation of Philips wing in the Library was taken from this fund (\$60,175.56). Present book value, \$25,128.94. The fund is invested and the income used for general college purposes, until otherwise directed by the Managers.

ELIZABETH J. SHORTRIDGE FUND

Founded 12 Month 22, 1930, by bequest from Elizabeth J. Shortridge, without restrictions. Until otherwise directed by the Managers, the income only is used for general purposes. Present book value, \$10,000.00.

HOWARD COMFORT MEMORIAL FUND

Founded in 1934 by gift of \$1,000 from President William Wistar Comfort in memory of his father, Howard Comfort, Class of 1870, who was a Manager from 1880 until his death in 1912, and Secretary of the Board of Managers from 1884 until 1908.

The fund was added to by further gifts from the same donor of \$1,000 in 1935, \$1,000 in 1936, \$2,000 in 1937 and \$500 in 1949. The income only is to be used for general purposes. Present book value \$5,527.31.

ELLEN W. LONGSTRETH FUND

This fund was established in 1935 by a bequest of \$20,000 and her residuary estate from Ellen W. Longstreth, a Friend, belonging to Haverford Meeting and living in Bryn Mawr. The principal and income are both unrestricted. This bequest and residue of \$84,416.28, together with further realization on residuary assets and an additional amount received upon the death of a life tenant of a trust, made a total of \$117,520.19. A part of this fund was used for the 1953-56 Building Program. Present book value is \$67,520.19.

ALBERT L. BAILY FUND

Founded in 1936 by an unrestricted bequest of \$5,000 from Albert L. Baily, '78. The income is used for general purposes. Present book value, \$5,000.00.

ELIZABETH B. WISTAR WARNER FUND

Founded First Month 16, 1937, by unrestricted bequest of \$4,950 from Elizabeth B. Wistar Warner, of Germantown, widow of George M. Warner, '73. The income is used for general purposes. Present book value \$4,950.00.

T. ALLEN HILLES BEQUEST

Founded First Month 19, 1937, by receipt of the proceeds of a trust fund created in 1935 by T. Allen Hilles, class of 1870, formerly of Wilmington, Delaware, recently of Glen Mills, Pa., who died 11th Month 15, 1935. The amount received in stocks and cash was \$285,000. Proceeds of mortgages of \$7,460.94 in 1938, and final cash from executor in 1939 of \$1,603.37 brought the gross total to \$294,064.31. From this was deducted in 1939 the final settlement of taxes and fees totalling \$13,300, thus making the final net bequest \$280,764.31. Accumulated income of \$12,489.77 was also received on First Month 19, 1937. In the trust created by the donor in 1935 he provided: "The gift to Haverford College shall constitute a fund to be known as 'The Hilles Bequest,' and the income shall be used for repair, upkeep and improvement of the building which I have given to Haverford College known as the Hilles Laboratory of Applied Science of Haverford College. My purpose in making this gift is primarily to relieve the Corporation of Haverford College from any additional expense on account of the erection of the building which I have given

them, and the accompanying expansion of its educational activities, but whenever and if the Board of Managers or other governing body of the College shall determine it to be for the best interest of the College to devote the whole or any part of the income of the fund to uses other than those above specified such income may be applied to such uses and in such manner as the Board of Managers or other governing body may in its absolute discretion determine." Present book value, \$280,764.31.

LEONARD L. GREIF, JR. AND ROGER L. GREIF FUND

Founded Ninth Month 29, 1937, by a gift of \$1,000 from Leonard L. Greif, '34, and Roger L. Greif, '37, of Baltimore. The gift was unrestricted, but the Managers have set aside this fund as endowment for general purposes, the income only to be used, until otherwise determined by them. Further gifts were received from Leonard L. Greif, Jr. in part through the 1949 Campaign. The present book value is \$7,000.

EDWARD M. WISTAR FUND

Founded First Month 9, 1938, by gift of \$2,500 from Edward M. Wistar, '72, for endowment, the income only to be used for general purposes. Present book value, \$2,500.00.

MORRIS E. LEEDS FUND

Founded Sixth Month 26, 1941, by a gift of shares of Leeds & Northrup stock, this fund was added to by further gifts of that company's stock during the lifetime of Morris Leeds. Upon his death he bequeathed to the college three-quarters of his entire residuary estate which bequest like the gifts made in his life was entirely without restrictions either as to principal or income.

The fund was ordered by the Managers until otherwise directed to be included among the funds for general purposes. After an appropriation for the 1953-56 Building Program, it has a present book value of \$1,429,792.09.

J. HENRY SCATTERGOOD FUND

Founded Tenth Month, 1941, by donations totaling \$1,660, made by members of the Board of Managers in recognition of the services for 25 years of J. Henry Scattergood, '96, as Treasurer of the Corporation of Haverford College. A further gift of \$340 was made in 1943-44, \$200.00 in 1949-50, \$1,000 in 1950-51 (through 1949 campaign) \$1,000 in 1951-52 (through 1949 campaign), \$1,000 in 1952-53 (through 1949 campaign), and \$6,800.00 in 1953-54 (through 1949 campaign). Present book value, \$12,000.00.

The income of this fund is to be used in the field of International Relations and to be at the disposal of the President of the College and the William Penn Professor holding the Chair in Political Science and International Relations. If the income in any year is not used for the special purposes as stated, in the discretion of the President, it may be used for general purposes. It is further provided that after Tenth Month 1, 1951 the use of the fund for other purposes, both as to principal and income, shall be subject to the direction of the Board of Managers of Haverford College.

PARKER S. WILLIAMS FUND

Founded Tenth Month 1, 1947, by unrestricted bequest of \$100,000 under the will of Parker S. Williams, Class of 1894, of Villanova, Pa., who died in 1942. The actual amount received from the executors was \$103,993.26, due to the increased value of certain investments, which were held, instead of being converted, under an agreement with the College. Income was paid to the College from time to time until the receipt of the bequest.

GILBERT C. FRY FUND

Founded Fourth Month 2, 1948, by an unrestricted gift of \$1,000 U. S. Treasury Bond from Gilbert C. Fry, of Germantown, Philadelphia, Class of 1923, in remembrance of his 25th anniversary of graduation. A new fund was set up and until otherwise ordered by the Managers, the income only will be used for general purposes. Further gift of \$500.00 was made in 1949-50, \$1,000 was made in 1950-51 (through 1949 campaign), \$1,000 1951-52, and \$1,500 in 1952-53, 1960-61, \$1,581.02. Present book value \$6,581.02

DANIEL B. BOYER FUND

Founded Third Month 3, 1948, with an initial gift of \$2,500 in stock from Daniel B. Boyer, Boyertown, Pa., Class of 1911. The donor's letter states: "It is my desire that the income from the stock be allocated for faculty use. If present reduced College income is not sufficient to cover current faculty needs, the Board of Managers should not hesitate to sell the shares and apply the proceeds for that purpose." A new fund was set up, and until otherwise ordered by the Managers, the income only will be used for faculty salaries.

MARRIOTT C. MORRIS FUND

Founded Ninth Month 1, 1948, by unrestricted bequest of \$10,000 from Marriott C. Morris, Class of 1885, of Germantown.

The fund is classified among unrestricted funds for General Purposes, and is included in Consolidated Investment Account. Book value, \$10,000.

1949 CAMPAIGN SALARY FUND

Founded Sept. 1, 1950 by a transfer of \$107,800.00 from the receipts of the 1949 Haverford Campaign for additional endowment.

The income is to be used to augment faculty salaries and for increasing, where necessary, the teaching staff to make possible the desired ratio between faculty and students.

Until otherwise ordered by the Board, 10% of the income is to be capitalized each year; provided that this shall not reduce the yield from the fund below 4%.

A portion of the Capital of this fund may be expanded at the discretion of the Board of Managers in accordance with the policy stated in the Campaign Appeal. Present book value, \$191,985.75

THE RUFUS M. JONES FUND FOR ADVANCEMENT OF TEACHING

Founded Sept. 1, 1950 by a transfer of \$235,000.00 from the receipts of the 1949 Haverford Campaign for additional endowment.

The income is to be used to stimulate professional growth, encourage desirable research, make possible short-term absences for study or to render special service, and to raise professors' salaries.

Until otherwise ordered by the Board, 10% of the income is to be capitalized each year; provided that this shall not reduce the yield from the fund below 4%.

A portion of the Capital of this fund may be expended at the discretion of the Board of Managers in accordance with the policy stated in the Campaign Appeal. Present book value, \$379,443.36.

WILLIAM PYLE PHILIPS FUND

Founded on the death of William Pyle Philips, class of 1902, of New York City, N. Y. on December 18, 1950 by the bequest of his entire residuary estate as an endowment fund in perpetuity, the principal is to be invested in such securities as the Board of Managers shall deem advisable "but at least $\frac{1}{2}$ thereof to be invested in diversified common stocks."

The income is "to be applied from time to time to such purposes as said Board of Managers in their discretion shall deem advisable, provided, however, that approximately one-half ($\frac{1}{2}$) of such income be applied to one or more of the following purposes:

"(a) Purchase for the Treasure Room of the College Library of rare books which the College would not otherwise buy and comparable with the books mentioned in *Article Third* hereof;

"(b) Bringing to the College distinguished scientists or statesmen for a lecture or series of lectures, for courses of instruction, for seminars, for research or for other academic purposes; and

"(c) Subscription to important learned periodicals, domestic and foreign, of the various humanities and sciences, purchases of back numbers of such periodicals and binding of the same for permanent preservation in the College Library." Present book value, \$2,485,966.70.

WILLIAM B. BELL FUND

Founded in Ninth Month 1951 by partial distribution of \$19,444.44 on account of an unrestricted bequest to the College of William B. Bell, Class of 1900, of New York, and in 1953-54 a final distribution of \$14,436.47.

The fund is to be used for General Purposes and is included in Consolidated Investments Account. Present book value is \$36,178.02.

DR. THOMAS WISTAR FUND

Founded in 1952, upon the termination of a Trust by the bequest of the residuary estate of Dr. Thomas Wistar, class of 1858, the funds are to be kept invested and the net income used for such purposes either general or special as the Managers of said College may direct. Present book value is \$25,068.15.

THE CHARLES McCaul FUND

Founded in 1953 by a bequest of 1/8th of the residuary estate of Mary N. Weatherly. The fund is to be known as The Charles McCaul Fund, in memory of her step-father. The income only shall be spent.

The use of the fund is unrestricted but it is the hope of the Testatrix that some portion of the income may be used to provide one or more scholarships, and that the rest of the income may be used to provide *sound and conservative instruction* in the Social Sciences.

It is my preference that such scholarships be awarded to students who show especial interest in the field of religion and the Social Sciences, but I do not specifically limit the use of the Fund, having confidence in Haverford College to teach high ideals." The present book value of this Fund is \$37,187.20.

ISAAC & LYDIA COPE SHARPLESS FUND

Founded in 1953 by bequest of \$5,000.00 from Lydia Cope Sharpless, who died Sept. 23, 1952, "in memory of my husband, Isaac Sharpless." The fund is without restriction, and has a present book value of \$5,000.00.

CLASS OF 1937 FUND

Founded Fifth Month 16, 1955 by a gift of \$4,500 from Margaret A. Lester and John A. Lester '96, in appreciation of the benefits rendered to their son, John A. Lester, Jr. '37.

The fund is unrestricted and has a present book value of \$4,500.

J. HORACE COOK FUND

"Founded in 1955 by a bequest under the will of J. Horace Cook, Class of 1881, who died March 25, 1939, this bequest became effective on the death of Mary Fuller Cook, his widow. This Fund is "to be kept . . . and the income to be used for the needs of the College as it shall see fit, but preferably for a scholarship one to be awarded each year so there will be a student in each class receiving his tuition from this fund." "Ten per cent of the net income for each and every year shall be added to principal of this Fund." Present book value, \$125,984.03.

THE FORD FOUNDATION ENDOWMENT FUND

The Ford Foundation made grants to the college on July 1, 1956 and June 27, 1957, for an Endowment Fund totaling \$345,000.

In accordance with the terms of the gift "Until July 1, 1966, the principal of the grant shall be held by the grantee institution only as endowment, and the income from such grant shall be used only to increase faculty salaries. After July 1, 1966, principal and income of the grant may be used for any educational purposes of the institution."

THE FORD FOUNDATION ACCOMPLISHMENT FUND

The Ford Foundation also made on July 1, 1956 and June 27, 1957, two payments for an accomplishment grant in the amount of \$214,000. This grant was made in recognition of the fact the college had, with certain other institutions to whom similar grants were made, taken the lead in their regions in improving the status and compensation of American College Teachers.

"The purpose of the grant shall be to advance the academic program of the grantee institution either by increases in faculty salaries or by meeting other pressing academic needs. The grant may be spent in whole or in part, from time to time, as the grantee institution may determine."

THOMAS HARVEY HAINES AND HELEN HAGUE HAINES FUND

Founded in 1956 by a bequest of one-third of the residuary estate of Helen Hague Haines, this fund was given in memory of Thomas Harvey Haines, class of 1896. The proceeds are to be used "to promote understanding among men by research, training and teaching in the field of human relations." Present book value is \$12,426.18.

EMILY BISHOP HARVEY FUND

Founded in 1958 by a bequest of \$10,000 from Emily Bishop Harvey of Radnor, Penna., patron and friend of the college, who died November 12, 1957, this fund is without restrictions and is to be used for the general purposes of the college. Book value is \$10,000.

CLASS OF 1933 TWENTY-FIFTH ANNIVERSARY FUND

Founded in 1958 by initial gift of \$6,477.50 from the Class at its 25th Reunion, the income is to be used for general college purposes at the discretion of the Board of Managers. However, the Board may use the principal, if conditions unforeseen at the time of establishment of the fund made it advisable. Present book value \$8,932.50.

JOHN E. HUME FUND

Founded in 1959, by a bequest of one-third of the residuary estate of John E. Hume, Class of 1897, the fund is unrestricted and is to be used for General Purposes. Present book value \$35,828.17.

FREDERIC H. STRAWBRIDGE FUND

This gift was left to the college by Frederic H. Strawbridge, Class of 1887, upon his death in 1958. The fund represents the culmination of a long series of gifts made during his fifty-one years as a member of the Board of Managers. It is unrestricted, and has a present book value of \$10,000.

WILLIAM H. COLLINS FUND

Established by the bequest of the residuary estate of Julia Cope Collins, who died August 20, 1959, and who was long a devoted friend and neighbor of the College, and widow of William H. Collins, Class of 1881, for many years head of the College Building and Grounds Division, the use of this fund is to be left to "the judgment of the governing body of the College." Julia Collins states in her will that "if the income from this Fund, or some part of it, could be used for scholarships for deserving students, I should approve of such use but . . . I do not restrict the use of the Fund for this purpose." The present book value is \$185,110.15.

MARY FRANCES NUNNS FUND

Founded in 1960 by a bequest of \$25,000 from Mary Frances Nunns, the income is to be used for scholarships unless otherwise directed by the Board of Managers, they being empowered by the will to use the income for scholarships or general purposes. The present book value is \$25,000.

ELI NICHOLS FUND

This fund, created under the will of Eli Nichols, Class of 1912, representing one-half of his residuary estate, came into possession of the College in January 1961 on the death of Anna E. Nichols.

By his will the fund is left to Haverford College "to be added to the General Endowment Funds of said College or to be used by the Trustees of said College as in their judgment and discretion may be for the best interest of said College."

The present book value of the fund is \$346,106.56.

WILLIAM GIBBONS RHOADS FUND

This fund was established in 1961, by a bequest of \$25,000 from William Gibbons Rhoads, Class of 1897, who died December 10, 1960.

His will directed that the "income from the aforesaid gift to the BOARD OF MANAGERS OF HAVERFORD COLLEGE shall be used for visits to the College by distinguished persons in the field of the Humanities and Social Sciences. These visits may be for a lecture, a series of lectures, for purposes of instruction, for seminars for research, or for other academic purposes. However, the income and/or principal of the fund may, at the discretion of the Board of Managers, be used for any purpose which they may consider to be of more value to the College, or the fund may be merged with the General Endowment of the College and the income or principal or both used toward the general expenses of the College." The present book value is \$25,000.

FUND FOR GRADUATE SCHOOL MOSES BROWN FUND

A trust founded by T. Wistar Brown, in 1906, as a memorial to his father, Moses Brown. Transferred to the College in 1916 after his death, having at that time a par value of \$372,821.91 and book value of \$318,823.56. Present book value, \$392,442.29. The fund was created to establish a graduate course in religious study in harmony with and supplementary to the teaching and study provided for by the John Farnum Brown Fund. The income only is to be used; at least ten per cent of the total income must be capitalized each year. The unused income, if any, is likewise capitalized at the close of each fiscal year. The graduate school supported by the Moses Brown Fund was designated "The Thomas Wistar Brown Graduate School." In 1927 the former separate school was discontinued and eight graduate scholarships were created.

In 1937-1938, arrangements were first made for cooperation in courses with Pendel Hill, a school for religious education under the care of Friends, located at Wallingford, Pa.

FUNDS FOR INFIRMARY INFIRMARY ENDOWMENT FUND

Founded in 1911 from subscriptions totaling \$9,072.55, raised among alumni and friends of the College. The income is used toward the expenses of the Morris Infirmary. Present book value, \$9,653.44.

JOHN W. PINKHAM FUND

Founded in 1911 by legacy of \$5,000 from Dr. John W. Pinkham, '60, being transmitted by gift from his widow, Cornelia F. Pinkham. There are no binding conditions, but as she expressed an interest in the Morris Infirmary, then building, the Board of Managers directed that the income of this fund should be used in the support and maintenance of the Infirmary. Present book value, \$5,059.50.

FUND FOR HAVERFORD UNION HAVERFORD UNION FUND

Founded in 1920 by gift from the former Haverford Union Members of \$1,000 par value of bond at book value of \$800 and \$678.59 cash, and all the personal property in the Union from the Haverford College Union. The College assumed the responsibility for the care of the building First Month 16, 1920. The income is used toward the maintenance of the Union building. Present book value, \$1,878.82.

FUNDS FOR SCHOLARSHIPS

THOMAS P. COPE FUND

Founded in 1842 by gift of sixty shares of Lehigh Coal and Navigation Co. stock, par value \$3,000, from Thomas P. Cope. Present book value, \$5,257.82. The income only is to be used "for the education of young men to qualify them to become teachers, but who are not of ability to pay their own schooling." This fund sustains the Thomas P. Cope Scholarships.

EDWARD YARNALL FUND

Founded in 1860 by bequest of \$5,000 from Edward Yarnall. Present book value, \$6,069.23. The income only is to be used for "the support of free scholarships." The fund sustains the Edward Yarnall Scholarships.

ISAIAH V. WILLIAMSON FUND

Founded in 1876 and increased in 1883 by gifts of sundry ground rents from Isaiah V. Williamson. Present book value, \$19,817.40. The income only is to be used for free scholarships. The fund sustains the Isaiah V. Williamson Scholarships.

RICHARD T. JONES SCHOLARSHIP FUND

Founded in 1885 by bequest of \$5,000 from Jacob P. Jones as a memorial to his late son, Richard T. Jones, '63. The income only is to be used to sustain the "Richard T. Jones Scholarship." Present book value, \$5,056.25.

MARY M. JOHNSON SCHOLARSHIP FUND

Founded in 1897 by bequest of \$5,000 from Mary M. Johnson. Accrued interest before payment to the College increased the fund by \$3,062.95. The bequest was to establish a "perpetual scholarship." The fund sustains the Mary M. Johnson Scholarships. Present book value, \$7,013.61.

SARAH MARSHALL SCHOLARSHIP FUND

Founded in 1897 by bequest of \$5,000 from Sarah Marshall. Accrued interest before payment to the College increased the fund by \$2,589.49. The bequest was to establish a "perpetual scholarship." The fund sustains the Sarah Marshall Scholarships. Present book value, \$7,919.76.

CLEMENTINE COPE FELLOWSHIP FUND

Founded in 1899 by gift of \$25,000 from Clementine Cope. The gift was to establish the "Clementine Cope Fellowship Fund to assist worthy and promising graduates of Haverford College in continuing their course of study at Haverford or at some other institution of learning in this country or abroad." The selection of the Fellows is made by the Board of Managers upon nomination by the Faculty. Present book value, \$22,845.86.

ISAAC THORNE JOHNSON SCHOLARSHIP FUND

Founded in 1916 by gift of \$5,000 from Isaac Thorne Johnson, '81. Present book value, \$10,202.21.. The gift was to establish "The Isaac Thorne Johnson Scholarship to aid and assist worthy young men of Wilmington Yearly Meeting or of the Central West to enjoy the privileges of Haverford College." Unused income is added to the principal of the fund.

CASPAR WISTAR MEMORIAL SCHOLARSHIP FUND

Founded in 1920 by gift of Edward M. and Margaret C. Wistar of \$5,000 par value in bonds in memory of their son, Casper Wistar, of the Class of 1902, who died in Guatemala in 1917 while engaged in mission service in that country. The income only is to be used for scholarships, primarily for sons of parents engaged in Christian service, including secretaries of Young Men's Christian Associations, or students desiring preparation for similar service in America or other countries. Present book value, \$7,434.26..

J. KENNEDY MOORHOUSE SCHOLARSHIP FUND

Founded in 1926 by gifts totaling \$3,000, with \$1,000 added in 1926, and \$1,000 in 1928 and \$1,000 in 1929 from the Class of 1900 in memory of their classmate, J. Kennedy Moorhouse. The scholarship provided by this fund is "to be awarded, whenever a vacancy shall occur, to the boy ready to enter the Freshman class, who in the judgment of the President of the College appears best fitted to uphold at Haverford the standard of character and conduct typified by J. Kennedy Moorhouse, 1900, as known to his classmates: A man, modest, loyal, courageous, reverent without sanctimony; a lover of hard play and honest work; a leader in clean and joyous living." Present book value, \$5,155.85.

LOUIS JAQUETTE PALMER SCHOLARSHIP FUND

Founded in 1928 by gift of \$5,000 from Triangle Society, as follows:

"The Triangle Society of Haverford College herewith presents to the Corporation of Haverford College, a fund of Five Thousand Dollars (\$5,000) to be hereafter known and designated as the 'Louis Jaquette Palmer Scholarship Fund';

"This fund represents contributions from the members of the Triangle Society of Haverford College who have been thus inspired to perpetuate the memory of their fellow member, Louis Jaquette Palmer, of the Class of 1894, one of the founders of the Triangle Society, whom they admired for his cooperative spirit and constructive interest in student and community welfare. The fund is placed with the Corporation of Haverford College with the understanding:

"That such student shall be selected from a list of those eligible for entrance to Haverford College, who shall have combined in his qualifications the fulfillment of such conditions as apply to applicants for the Rhodes Scholarships under the terms of its creation, and furthermore that the student so selected and entered in Haverford College may continue to receive said

scholarship fund throughout his course at College, subject to the approval of the Committee, otherwise preference shall be given to applications for the Freshman Class;

"That the selection of said student and the determination of the qualities and conditions hereinbefore mentioned shall be subject to the decision and control of a committee of three (3), which committee shall be composed of two (2) members of the Triangle Society and the President of Haverford College, the said members of the Triangle Society to select and recommend the applicants and the committee as a whole to determine their qualifications and eligibility.

"Finally, in the event that no student is selected by the Triangle Society or that a vacancy occurs, the income from said funds and any additions shall accumulate as provided under the customary rules and regulations of the Corporation of Havorford College."

This fund has further been added to by yearly contributions from members of the Triangle Society, and during the current year, besides such additions in the amount of \$1,072.94, by a legacy of Mary R. Thomas of \$500. Present book value is \$15,109.13.

PAUL W. NEWHALL MEMORIAL SCHOLARSHIP FUND

Established in 1931 by bequest of \$5,045.60 from Mary Newhall in memory of her father, Paul W. Newhall, a Manager, 1844-48, for the establishment of a scholarship fund. The income only to be used for free scholarship purposes. Present book value, \$5,045.60.

ROBERT MARTIN ZUCKERT MEMORIAL SCHOLARSHIP FUND

Founded in 1935 by gift of \$750. \$2,000 each year, 1936 to 1940, and in 1942; \$2,500 in 1941; \$1,000 in 1943; \$1,000 in 1944; \$2,000 in 1945; \$2,000 in 1947-1948, \$1,000 in 1949-1950, by Harry M. Zuckert, New York, in memory of his son, Robert Martin Zuckert, of the Class of 1936, who was killed in an accident in June, 1935. The income is to be used for scholarship and the donor said, "I should prefer a boy who is a native of New York or Connecticut and who now resides in one of those States." Present book value, \$22,250.00.

SAMUEL E. HILLES ENDOWMENT CREATED BY MINA COLBURN HILLES

Founded in 1935 by gift of \$5,000 from Mrs. Mina Colburn Hilles, of Orlando, Fla., in memory of her husband, Samuel E. Hilles, Class of 1874, formerly of Cincinnati, who died in 1931. This fund was created under a trust deed with Central Title and Trust Co., Orlando, Fla., to whom annual reports are to be made. The income only is to be used for scholarships for worthy students who are unable to finance their expenses at Haverford College. Present book value, \$5,017.31.

CLASS OF 1913 SCHOLARSHIP FUND

Founded Fourth Month 15, 1937, by gift of \$3,000 from Class of 1913 for the endowment of scholarship aid. The income only is to be used for scholarship aid, to be awarded annually to a worthy student of any undergraduate class. Preference is to be given to sons of members of the Class of 1913 who may apply and who meet the usual requireemnts of the College. Present book value, \$3,000.00.

THE AUGUSTUS TABER MURRAY RESEARCH SCHOLARSHIP FUND

Founded Fifth Month 31, 1939, by gift from two anonymous friends of Dr. Augustus Taber Murray, '85, by gifts of \$20,000 par value of securities subject to annuity during their lives, and with permission to use principal for the annuity payments, if necessary.

Upon the deaths of the two annuitants, the remaining principal shall be held in a fund, the "Income to be used for scholarships in recognition of the scholarly attainments of Augustus Taber Murray, a distinguished Alumnus of Haverford College, of the Class of 1885, and for many years a professor of Leland Stanford University, the fund to be known as 'The Augustus Taber Murray Research Scholarship.' Then scholarships in English literature or philology, the classics, German literature or philology (in order of preference) shall be awarded upon such terms and conditions as the College may from time to time establish to students who have received the bachelor's degree at Haverford College, and shall be awarded for the purpose of study in other institutions toward the degree of Doctor of Philosophy or such degree as may in the future correspond to that degree."

The amount of the Scholarship is to be \$900 a year whenever awarded, and only unmarried students are eligible to hold it. Present book value, \$25,738.29.

THE CLASS OF 1917 SCHOLARSHIP FUND

Founded Seventh Month 13, 1942, by initial gift of \$2,000.00 from the Class of 1917, John W. Spaeth, Jr., Treasurer, as a Twenty-fifth Anniversary Gift. A further gift of \$250.00 was made at the same time to cover the first two years of a scholarship of \$125.00 per year. Preference is to be given to a son of a member of the Class of 1917. The income only is to be used for a scholarship to the extent of \$150.00 per annum. This was increased to \$200.00 per annum in 1947-1948. Further contributions from the members of the Class of 1917 are to be applied in the following order:

(1)—To supplement the annual income from the principal sum of \$2,000.00, so that the annual scholarship stipend shall be \$150.00 (increased to \$200 in 1947-48, increased to \$300 in 1949-50, increased to \$500 in 1952-53), or as near that sum as may be;

(2)—To add to the principal sum any surplus of these annual contributions not needed to serve the purpose of (1). Since the scholarship stipend for the years 1942-1943 and 1943-1944 was already provided for by the additional \$250.00 already contributed by the Class of 1917, the annual contributions from the Class in these two years was added at once to the principal sum of \$2,000.00, thus serving the purpose of (2) above. Further contributions have been made annually to make their present book value \$11,200.00

DANIEL B. SMITH FUND

Founded Tenth Month 6, 1943, by gift of \$2,500 from Anna Wharton Wood, of Waltham, Mass., who died in 1944. This was increased Fifth Month 24, 1945 by a bequest of \$2,500 made by Miss Esther Morton Smith, of Germantown, Philadelphia, who died Third Month 18, 1942, by a further bequest by Dorothea Atwater Smith of \$5,000 March 10, 1958.

This fund is established by the granddaughters of Daniel B. Smith "in loving memory of their grandfather and his intimate association with the early years of the College."

The income is to be used, in the discretion of the Faculty as an annual scholarship for some young man needing financial aid in his College course. Preference is to be given to a descendant of their father, Benjamin R. Smith, if any such should apply. Present book value, \$10,000.00.

SARAH TATUM HILLES MEMORIAL SCHOLARSHIP FUND

Founded Eleventh Month 1, 1943 by bequest of \$75,534.58 from Joseph T. Hilles 1888, in memory of his mother "Sarah Tatum Hilles."

The will directs that the income be used "to provide for such number of annual scholarships of \$250 each as such income shall be sufficient to create"; they are to be awarded by the Managers upon "needy and deserving students," and to be known as "Sarah Tatum Hilles Memorial Scholarships."

It is estimated that twelve scholars can be thus provided for at present. Present book value \$75,534.58.

ELIHU GRANT MEMORIAL SCHOLARSHIP FUND

Established Second Month 2, 1944 by gift of \$200 from Mrs. Elihu Grant to supplement the simultaneous transfer of \$803.73 to this new fund from Donations Account, being the balance of Donations made by Dr. Grant during his lifetime to the Beth Shemesh account, and \$75.00 realized from the sale of some of his books. Mrs. Grant has made a further gift of \$1,000 in 1943-44 and \$2,000 in 1944-45. And, Grant Foundation, Inc., gave \$10,000, also in 1944-45. Mrs. Grant made a further gift of \$1,000 in 1945-46. In 1949-1950 in connection with the Campaign, the Grant Foundation made a further gift to the College of \$25,000, to be added to this fund. Present book value, \$40,275.01.

With the donor's approval, the terms of the fund are as follows:

"Founded in 1944 to commemorate the service to Haverford College of Dr. Elihu Grant, from 1917 to 1938, a member of the College faculty. The income from this fund is applied to scholarship assistance to students in the Humanities, primarily those specializing in the study of Biblical Literature and Oriental subjects, and is limited to those whose major subject has been approved by the College faculty. In special circumstances the income may be utilized to assist those working for a post-graduate degree at Haverford College." If conditions change, the Managers are given power to change the use of the fund. In making the additional grant in 1949-50, the Foundation stated that "the income from this present gift may be allocated as scholarship or fellowship awards by the proper authorities of the College to under graduate or graduate students without restriction as to courses of studies." Present book value, \$40,275.01.

CHRISTIAN FEBIGER MEMORIAL SCHOLARSHIP FUND

Founded Sixth Month 13, 1946 by a gift of \$8,000 from Madeleine Seabury Febiger, of Philadelphia, in memory of her husband, Christian Febiger, Class of 1900.

On Third Month 18, 1949 a bequest of \$9,050 was received from the executors of Mrs. Madeleine Seabury Febiger, who died September 27, 1947, and was added to this fund.

The income only is to be used in paying the tuition or other college expenses of worthy, needy students at Haverford College. Present book value, \$17,050.

JOSEPH L. MARKLEY MEMORIAL SCHOLARSHIP FUND

Founded 2nd Month 10, 1947 by gift of \$5,000.00 from Mrs. Mary E. B. Markley of Ann Arbor, Michigan, widow of Joseph L. Markley, A.B. '85, M.A. '86, who was Professor of Mathematics at University of Michigan. The gift was made "to be held as an endowment fund in memory of Joseph L. Markley of the Class of 1885. The income of which is to be granted each year, in the discretion of the faculty, as a scholarship to some student on the basis of character, scholarship and financial need."

JOSEPH C. AND ANNE N. BIRDSALL SCHOLARSHIP FUND

Founded 2nd Month 24, 1947 by initial gift of \$10,000 from Dr. Joseph C. Birdsall, Class of 1907, of Haverford, Pa., "for the establishment of a new fund to be known as "Joseph C. and Anne N. Birdsall Scholarship Fund, the income only to be granted each year, in the discretion of the faculty of Haverford College, as scholarship aid to some student or students of Haverford College who are preparing for medicine,—the selection to be upon the basis of character, scholarship and financial need." Further gifts 1947-48, \$5,000; 1948-49, \$5,000; 1949-50, \$5,000; 1956-57, \$5,000. Present book value, \$30,000.

DANIEL E. DAVIS, JR., MEMORIAL SCHOLARSHIP FUND

Founded by gifts made First Month 20 and Second Month 17, 1948, totalling \$3,000, by Mr. and Mrs. Daniel E. Davis, of Sewickley, Pa., to establish the Daniel E. Davis, Jr., Memorial Scholarship Fund, in memory of their son, ex Class of 1944, who was killed in aerial warfare in the Pacific.

The income from the fund is to be granted each year, in the discretion of the Faculty, as a scholarship to some student on the basis of character, scholarship and financial need.

JONATHAN M. STEERE SCHOLARSHIP FUND

Founded Twelfth Month 28, 1948 by gift of \$2,300 from Jonathan M. Steere, Class of 1890. Classified among the Scholarship Funds and included in Consolidated Investment Account.

The donor's provisions governing the use of the fund are as follows: "With this stock, or its proceeds, I wish to establish a fund for a scholarship primarily for a graduate of Moses Brown School, Providence, R. I., now under the care of New England Yearly Meeting of Friends. Should the scholarship not be awarded in any one year to a graduate of Moses Brown School, it may be awarded to someone else, preferably from New England, in the discretion of the College. If advisable, it may be given to more than one boy in any year. My preference is that it be awarded to a member of the Society of Friends, but I do not so restrict it. Should the time come when, for any reason, scholarships may not be needed or desirable, having full confidence in the Management of the College, I wish that both the principal and the income be used as the College in its sole discretion shall determine.

"I suggest that at the College it be known as the 'Moses Brown School Scholarship', and at the School as the 'Haverford Scholarship'." A further gift of \$4,985.00 was made in 1949-50 and \$2,715 in 1950-51

Upon his death on September 21, 1958, \$10,000 was added by bequest to the fund making the present book value \$20,000.00.

WILLIAM GRAHAM TYLER MEMORIAL SCHOLARSHIP FUND

Founded Tenth Month 1949 by gift of \$15,000 from Miss Mary Graham Tyler in memory of her father, William Graham Tyler, Class of 1858. Formerly of Philadelphia, William Graham Tyler took an active part in civic improvement in New Jersey and in Iowa, and was concerned with the advancement of Friends Education at both William Penn College and Haverford College.

The income from the fund is to be granted each year, in the discretion of the College, as scholarship aid to some student or students on the basis of character, scholarship, and financial need. Preference is to be given to students from Oskaloosa, Iowa, or William Penn College in that state.

1890 MEMORIAL SCHOLARSHIP FUND

Founded in March 1950 by a gift of \$2500 from Andrew L. Lewis of Worcester, Pennsylvania, in memory of his father, John F. T. Lewis, of Class of 1890, "and in recognition of his father's friendship with the members of his class."

The income from this fund is to be awarded as a scholarship by the College to a deserving student. Since in the beginning the income from this fund will not be large enough to furnish an entire scholarship, it may be used in conjunction with some other scholarship to insure aid of material size. Increased by \$100 in 1951-52 and \$100 in 1952-53. Present book value, \$2,700.

1949 CAMPAIGN SCHOLARSHIP FUND

Founded Sept. 1, 1950 by a transfer of \$38,610.00 from the receipts of the 1949 Haverford Campaign for additional endowment.

The income is to be used to increase funds available for scholarships, in order to maintain the quality and increase the diversity of the student body and to carry on the tradition that personal merit rather than ability to pay is the primary entrance qualification.

Until otherwise ordered by the Board, 10% of the income is to be capitalized each year; provided that this shall not reduce the yield from the fund below 4%.

A portion of the Capital of this fund may be expended at the discretion of the Board of Managers in accordance with the policy stated in the Campaign Appeal. Present book value, \$50,082.18.

MAX LEUCHTER SCHOLARSHIP FUND

The plan for this fund was evolved during the life of Max Leuchter, who died in 1949, and carried out upon his death by his wife Cecila P. Leuchter and his sons, Ben Z. Leuchter and Joel C. Leuchter. Self educated after completion of grade school, becoming editor and publisher of the Vineland Times Journal, Max Leuchter wished to benefit the College to which he sent his son, and which he had come to greatly admire.

The purpose of the donors in making this gift in 1950 of \$10,000.00 was to "create a scholarship which shall be given yearly to a student whose need can be demonstrated, whose academic performance meets the College requirements, and who, in addition, gives promise of making an outstanding contribution to the life of the College through his breadth of interest, his love of hard play and of hard work."

The scholarship shall be in the amount of \$300.00 in the beginning. It may be given to a new student each year or to one student through each of his four years. All income received above \$300.00 shall be capitalized each year.

"When the income from the fund has reached proportions such that an additional scholarship of \$300.00 can be awarded, and that at the same time at least \$300.00 can be returned to the fund, the additional award shall then be made."

"It is the further wish of the donors that, while their interests are primarily as stated above, should the Board of Managers of the College be faced with circumstances which cannot be foreseen now, the Board may, at its discretion, use the income from the fund for College purposes other than the scholarship purposes." The present book value is \$15,703.13.

A. CLEMENT WILD SCHOLARSHIP FUND

Founded in 1951 by a first gift of \$4,087.50 of Gertrude T. Wild in memory of her husband, A. Clement Wild, of the class of 1899. The income from the fund is to be used for a scholarship or scholarships, to be granted without restrictions in the discretion of the College.

In making the gift the donor, though reiterating the freedom from restrictions, expressed the feeling that as A. Clement Wild was born in England, becoming a naturalized American Citizen, a grant to an English Exchange Student or someone in a similar category would be appropriate. Increased by \$4,625.00 in 1951-52; \$4,300.00 in 1952-53; in 1953-54 \$4,100.00; in 1954-55 \$5,300.00; and in 1955-56 \$2,587.50. The present book value is \$25,000.

CAROLINE CHASE SCHOLARSHIP FUND

Founded December 10, 1951 by payment on a bequest of part of the residue of the estate of Caroline Chase, daughter of Thomas Chase, one time president of the College, of Providence, Rhode Island, whose Will provided:

"This gift is made as an expression of my father's enthusiastic appreciation for its high standards of scholarship in Greek, Latin and English literature.

"It is my intention that the said share given to said Haverford College shall be used for any of the educational purposes of said College according to the discretion of the President of the time being."

Present book value of the fund is \$6,245.11.

ROY THURLBY GRIFFITH MEMORIAL FUND

Founded in 1953 by a legacy of \$5,000.00 from Grace H. Griffith, who died April 14, 1952, in memory of Roy Thurlby Griffith, class 1919. "The income therefrom to be used for a scholarship or scholarships for such individual or individuals as in the judgment of the Trustees of said College shall be deserving of the same. The Trustees of said College shall have full power and discretion to determine the number of scholarships, the amount of such scholarships, and the recipients of the same, but it is my desire that wherever possible preference shall be given to boys who have no father and who are in need of financial assistance." Present book value \$5,000.

CLASS OF 1904 SCHOLARSHIP FUND

Founded June 4th, 1954 in commemoration of its fiftieth anniversary by the Class of 1904 and the families of its deceased members, the Fund is to be used for scholarship purposes and has a present book value of \$6,000.

INAZO NITOE SCHOLARSHIP FUND

"Founded in 11th Month 1955 by a bequest of \$10,000 under the will of Anna H. Chace of Providence, R.I. The fund became payable upon the death of her sister Elizabeth M. Chace.

"The income, or so much thereof as said College may deem best, (is) to be used and applied for the education at said Haverford College of a Japanese student who shall be a resident of Japan at the time of his appointment to such scholarship and for his traveling expenses from and to Japan and his living expenses during the period he shall hold such scholarship." Present book value, \$10,000.

THE SUMMERFIELD FOUNDATION SCHOLARSHIP FUND

Founded February 1956, by a gift of \$1,000 from The Summerfield Foundation, this fund is to be added to the Endowment of the College; the income is to be used for scholarship purposes. Present book value, \$6,000.00.

W. LACOSTE NEILSON SCHOLARSHIP FUND

This fund was established in June 1957 by the family and friends of W. LaCoste Neilson, Class of 1901, in his memory.

The income is to be used for the payment of one or more scholarships at the discretion of the College, preference if possible being given to students taking scientific or practical courses rather than those in the field of the arts. The present value of this fund is \$12,575.00

WALTER R. FARIES SCHOLARSHIP FUND

Founded in 1959 by a gift of securities from Walter R. Faries, Class of 1916, the fund is to be administered in accordance with an agreement with the donor.

Upon the death of certain annuitants "all income thereafter shall be used to provide partial or full scholarships for future students at Haverford with the understanding that leadership qualities rather than scholastic ability alone shall be considered as far as practicable in making such award. If changing circumstances in years to come shall, in the judgment of the Board of Managers of Haverford College, make the original purpose of this fund impracticable or undesirable, such Board shall have the power to use the income for other purposes of the College." Present book value \$65,292.69

RUFUS MATTHEW JONES SCHOLARSHIP FUND

Founded Twelfth Month 23, 1959, by initial gifts of \$1,500 from Clarence E. Tobias, Jr. of Cynwyd, Pennsylvania, as a testimonial to Rufus Jones and in gratitude for "the excellent educational facilities Haverford provided for me and my son," the principal and income of this Fund are to be used for scholarships or loans to students majoring in Philosophy. Preference is to be given to seniors. The recipients will be selected by the Chairman of the Philosophy Department in consultation, if he desires, with his departmental associates and in accord with the usual scholarship practice of the College. The Donor welcomes addition to the Fund from anyone who might be interested.

If changing circumstances in future years make it advisable, the provisions for use of this Fund may be changed by the Board of Managers on the recommendation of the President of the College and the Chairman of the Department of Philosophy. The present book value is \$2,000.00.

CLINTON P. KNIGHT, JR. NEW ENGLAND SCHOLARSHIP FUND

This fund was established in 1961 by a gift of \$5,465.98 from the Haverford Society of New England, representing accumulated contributions from its members over a period of years while they were maintaining a \$500 annual scholarship at the College.

By agreement of the Board of Managers, a portion of the contribution made during 1961 by members of the Society to the Haverford College Development Program was added to the Fund at its inception to bring the total to \$12,500. The income, and principal if necessary, is to be used to maintain annual scholarships of at least \$500, with preference to be given to a student from the New England area. If at some future time changing conditions make it inadvisable to continue on these terms, the Board of Managers shall have discretion to use the principal or income for other purposes. Provison has been made by the donor for additions by anyone interested in the purposes of the fund.

At the request of the Haverford Society of New England, in recognition of the leading part played by Clinton P. Knight, Jr., '16, in the establishment and building up of this Fund, it has been named in his honor. The present book value is \$12,500.

GEORGE A. KERBAUGH SCHOLARSHIP FUND

This fund was established in 1960 in recognition and appreciation of the leadership and personal generosity of George Kerbaugh, '10, who headed the efforts of the Triangle Society to provide for additional badly needed stands for Walton Field.

At the time the stands were given in 1947-49 it was agreed that the income derived from the stands preferably would be used for improving the athletic facilities of the College as determined by the Administration after consultation with the Triangle Society. Changing conditions with regard to admission charges and fluctuations in attendance made it so difficult to arrive at a satisfactory determination of the exact income which these new stands produced that it was decided, in lieu of the previous arrangement, to establish a second Triangle Scholarship of \$700 per annum drawn from the general funds appropriated for scholarships, this being the equivalent of 5% income on the original investment in the stands.

George Kerbaugh's many services to the College included his chairmanship of the Committee which raised the funds for the Library addition built in the 1930's. The Board of Managers then expressed to him "its heartfelt appreciation and its sense of great obligation for a notable achievement."

FUNDS FOR THE LIBRARY

ALUMNI LIBRARY FUND

Founded in 1863 by contributions from the alumni and other friends of the College. In 1909 the unexpended balance (about \$5,000) of a fund of \$10,000 raised in 1892, and known as the "New Library Fund," was merged into the Alumni Library Fund. Present book value, \$17,435.06. The income is used for binding and miscellaneous expenses of the Library.

MARY FARNUM BROWN LIBRARY FUND

Founded in 1892 by gift of \$20,000 from T. Wistar Brown, executor of the Estate of Mary Farnum Brown. Additions were made by T. Wistar Brown in 1894, \$10,000 for a lecture fund, and in 1913, \$20,000. In 1916, after T. Wistar Brown's death, there was added to this fund \$34,499.78 par value of securities, book value, \$30,149.78, being a trust which he had created for this purpose in 1908 and to which he had made additions in subsequent years. Present book value, \$68,269.99. The purpose of this fund (except \$10,000) is for the increase and extension of the Library. The income only is to be used for the purchase of books, and one-fifth of same is to be spent for books promoting the increase of Christian knowledge. The books purchased with the income of this fund are marked by a special book-plate. The income of \$10,000 of the fund is to provide for an annual course of lectures upon Biblical subjects designated "The Haverford Library Lectures." Unused income from the fund, if any, must be capitalized at the end of each fiscal year.

WILLIAM H. JENKS LIBRARY FUND

Founded in 1910 by gift of \$5,000 from Hannah M. Jenks, widow of William H. Jenks. The fund was first known as "Special Library Fund," but after the death of Hannah M. Jenks was changed, in 1916, to "William H. Jenks Library Fund." The purpose of this fund is that the income shall be used for the care of the collection of Friends' books made by William H. Jenks and given by his widow to Haverford College, and to make appropriate additions thereto. Any income not used for these purposes may be used toward the general needs of the Library. Present book value, \$5,000.00.

MARY WISTAR BROWN WILLIAMS LIBRARY FUND

Founded in 1914 by gift of \$20,000 from Parker S. Williams, '94, as a memorial to his late wife, Mary Wistar Brown Williams. The income only is to be used for the purchase of books for the Library, preferably books coming within the classes of history, poetry, art, and English and French literature. The books purchased with the income of this fund are marked by a special book-plate. Present book value, \$20,306.74.

ANNA YARNALL FUND

Founded in 1916 by residuary bequest of \$13,000 par value of securities with book value of \$7,110, and one-half interest in suburban real estate from Anna Yarnall. Additional amount under bequest was received in 1918. Present book value, \$173,078.14. The real estate was sold in 1923 and netted the College \$164,820.50. The bequest was made for the general use of the Library. The Testatrix says, "I do not wish to restrict the managers as to the particular application of this fund, but desire them to use the income arising from it as in their best judgment and discretion shall seem best, for the purchase of books and manuscripts, book cases, rebinding of books, and, if need be, the principal or portions thereof, or the income or portions thereof, for additions to the pres-

ent Library building, or the erection of new Library buildings. I direct that all books purchased with this fund shall be plainly marked 'Charles Yarnall Memorial' in memory of my father, Charles Yarnall."

F. B. GUMMERE LIBRARY FUND

Founded in 1920 by gift of \$635.41, raised among the students by the Students, Association of the College as a memorial to Professor Francis Barton Gummere. The income only is to be used to buy for the Haverford College Library books on the subjects that he taught or was interested in.

The student's Association voted to raise twenty-five dollars for a special shelf in the Library to be known as the "F. B. Gummere Memorial Shelf." This shelf, with its proper inscription, holds the books purchased by this fund. Present book value, \$635.47.

EDMUND MORRIS FERGUSSON, JR., CLASS OF 1920 MEMORIAL FUND

Founded in 1920 by memorial gift of \$1,000 from the family of Edmund Morris Fergusson, Jr., Class of 1920, who died at the College in his Senior year. The income only is to be used for the maintenance and increase of the Library's Department of English and American Literature. The books purchased with the income of this fund are marked by a special book-plate indicating its source. Present book value, \$1,002.34.

CLASS OF 1888 LIBRARY FUND

Founded Sixth Month 15, 1938, by gifts totaling \$5,250 from members and families of the Class of 1888, on the occasion of their fiftieth anniversary. The conditions of the gift are as follows:

- (1) A fund is to be established, to be known as "THE CLASS OF 1888 LIBRARY FUND."
- (2) The income only of this fund is to be used exclusively for the purchase of books for the Haverford College Library, except as noted below (in Clause 6).
- (3) The fund established now will be added to later by gift or bequest.
- (4) Members of the Class also expect to donate books to the Library, with the understanding that when such books are duplicates of books already in the Library, they may be exchanged for books needed, or sold, and the money so obtained used in the same way as the income of the fund.
- (5) All books purchased by the income of the fund (or obtained as in 4) are to be provided with a special book-plate to be furnished by the Class.
- (6) Income from the Class Fund or moneys obtained by sale of duplicate books may, when necessary, be used for binding or repair of books designated as belonging to the Class collection. Additional donations were made as follows: \$500 in 1939-40; \$100 in 1943-44; \$500 in 1944-45 and \$200 in 1945-46. Present book value, \$6,550.00.

CLASS OF 1918 LIBRARY FUND

Founded Third Month 24, 1938 by gift from the Class of 1918 in commemoration of their twentieth anniversary. The gift was \$1,753.52 of which \$500 was spent for a portrait of the late Rayner W. Kelsey, Professor of History, who died Tenth Month 29, 1934; and the balance of \$1,253.52 was used in establishing a new Library Fund, the income to be used for books. Present book value, \$1,253.52.

QUAKERIANA FUND

Founded 1st Month 8, 1947, by gift of \$600 from President Emeritus William Wistar Comfort '94, as explained in letter from him as follows: "In 1940 some Alumni gave me a sum of money to buy books for myself. This I have done, and now there remains \$600 which I wish to make over to the Corporation, the interest of which may provide books or manuscripts for the Quaker collections. As a compliment to the donors of the fund, I should like the enclosed bookplate to be inserted in such future purchases."

MOHONK FUND FOR THE RUFUS JONES COLLECTION OF MYSTICISM

Founded Third Month 21, 1949 by gifts totaling \$1,500 from members of the Albert K. Smiley family of Mohonk Lake, N. Y.

The gift was made "to make possible additions to the Rufus Jones Collection on Mysticism in the College Library," with the further provision that "it may be used at the discretion of Haverford College, if the purpose for which it is intended should no longer be applicable or desirable."

The fund is classified among Library Funds, and is included in Consolidated Investment Account. Book value, \$1,500.

RUFUS M. JONES BOOK FUND

Founded Seventh Month 11, 1949 from bequest of \$5,000 through a deed of Trust established by Rufus M. Jones during his life, "the income only to be used—for the purchase of books on Mysticism, to be added to the Collection of books on that subject," which he turned over to the College a few years before his death.

The fund is designated as the Rufus M. Jones Book Fund, is classified among Library Funds, and is included in Consolidated Investment Account. Book value, \$5,000.

1949 CAMPAIGN LIBRARY FUND

Founded Sept. 1, 1950 by a transfer of \$22,100. from the receipts of the 1949 Haverford Campaign for additional endowment.

The income is to be used to increase funds with which to buy books, and thus maintain the excellence of the Library.

Until otherwise ordered by the Board, 10% of the income is to be capitalized each year; provided that this shall not reduce the yield from the fund below 4%.

A portion of the Capital of this Fund may be expended at the discretion of the Board of Managers in accordance with the policy stated in the Campaign Appeal. Present book value, \$37,150.59.

THE CLASS OF 1909 RUFUS M. JONES MEMORIAL LIBRARY FUND

Income from this Fund, established by the Class of 1909 at the 50th Anniversary of its graduation as a memorial to Rufus M. Jones, is to be used for the purchase of books or special reproductions of rare books, in the area of the Humanities, especially in the fields of Mysticism, Religion, Philosophy and Literature as representative of the interests of Rufus M. Jones. Present book value \$2,111.47.

RAYNER W. KELSEY FUND

This fund was established by a gift of \$1,000 from Naomi B. Kelsey, widow of Rayner W. Kelsey, who was for many years professor of American History and a curator of the Quaker Collections.

The income is to be used to strengthen the Library collection of books and to promote sound scholarship in the field of American History. The present book value is \$1,000.

FUNDS FOR PENSIONS

PRESIDENT SHARPLESS FUND

Founded in 1907 by contributions from interested friends of the College, finally amounting to \$40,000. Present book value, \$41,237.08. The income is to be used for the teachers and professors of Haverford College as the President of the College and his successors, with the approval of the Board of Managers, may decide. The income from this fund is annually transferred to the Haverford College Pension Fund for old style pensions, or, if not needed for pensions, is capitalized in said fund.

WILLIAM P. HENSZEY FUND

Founded in 1908 by gift of \$10,000 from William P. Henszey, donated in connection with the raising of the President Sharpless Fund, but kept as a separate fund. Increased in 1909 by legacy of \$25,000 from William P. Henszey. Present book value, \$36,758.66. The income is to be used, as in the President Sharpless Fund, for the teachers and professors of Haverford College as the President of the College and his successors, with the approval of the Board of Managers, may decide. The income from this fund is annually transferred to the Haverford College Pension Fund for old style pensions, or, if not needed for pensions, is capitalized in said fund.

JACOB P. JONES BENEFIT FUND

Founded in 1909 and increased in 1910 by proceeds of land sold for account of Jacob P. Jones legacy. Present book value, \$68,113.78. The income is to be used, as in the President Sharpless Fund, for the teachers and professors of Haverford College as the President of the College and his successors, with the approval of the Board of Managers, may decide. The income from this fund is annually transferred to the Haverford College Pension Fund for old style pensions, or, if not needed for pensions, is capitalized in said fund.

PLINY EARLE CHASE MEMORIAL FUND

Founded in 1909 by transfer to the College of a fund raised in 1887 in memory of Professor Pliny Earle Chase, and amounting to par value of \$4,173.04. The income of this fund is used, as in the President Sharpless Fund, for the teachers and professors of Haverford College as the President of the College and his successors, with the approval of the Board of Managers, may decide. This income is transferred annually to the Haverford College Pension Fund, for old style pensions, or, if not needed for pensions, is capitalized in said fund. Present book value, \$3,272.24.

HAVERFORD COLLEGE PENSION FUND

Founded in 1920 and added to since, being accumulations of income from the President Sharpless Fund, the William P. Henszey Fund, the Jacob P. Jones Benefit Fund and the Pliny Earle Chase Memorial Fund, not needed for pensions. Present book value, \$104,715.73. The income from this fund, together with the income from the four above-mentioned funds, is used for old style pensions. Income not needed for pensions was capitalized until 1932; then any unused income was used toward the College's share in cost of new contributory pensions with the Teachers' Annuity and Insurance Association. Now the old style pensions call for more than the income of all these Pension Funds. When the proper time comes in an actuarial sense, the principal of this fund can be used as well as the income for the old style pensions until they cease.

FUNDS FOR SPECIAL PURPOSES

THOMAS SHIPLEY FUND

Founded in 1904 by gift of \$5,000 from the late Samuel R. Shipley as a memorial to his father, Thomas Shipley. Present book value, \$5,248.00. The income only to be used for lectures on English Literature at the College. In case of actual need, at the discretion of the President of the College, the income can be used for general expenditures.

ELLISTON P. MORRIS FUND

Founded in 1906 by gift of \$1,000 from Elliston P. Morris, '48. The income is to be used as a prize for essays to be written by students on the subject of Arbitration and Peace. "The Elliston P. Morris Prize" of \$40 is given in each year, the competition being open to all undergraduates and to graduates of not more than three years standing.

In 1929, it was determined, with the consent of the family of Elliston P. Morris, that when the prize is not awarded the income may be used for the purchase of library books on arbitration and peace. Present book value, \$1,126.75.

JOHN B. GARRETT READING PRIZE FUND

Founded in 1908 by a gift of \$2,000 par value of bonds by the late John B. Garrett, '54. It was the purpose of the donor to ensure the permanence of a prize or prizes for Systematic Reading, which he had given for a number of years. The prizes were not awarded from 1922 to 1939 on account of default of the bonds. Reorganization has resulted in 1939 in sufficient recovery of value to provide again for this prize. Present book value, \$4,197.87

SPECIAL ENDOWMENT FUND

Founded in 1909 by gift of \$12,000 par value of bonds, book value \$11,800, from an anonymous donor. The income only of this fund to be used "to furnish opportunity for study of social and economic and religious conditions and duties connected therewith, especially from a Christian point of view." The income is used toward the expenses of Summer Schools for Religious Study, which have been held at Haverford and Swarthmore Colleges from time to time, and also for religious education under Friends' care.

On Fifth Month 16, 1930, the Managers adopted the following amendment, made at the suggestion of the donor, now revealed to be John Thompson Emben, 1900: "If, however, it shall in the course of time be deemed advisable by the President and the Managers that the income of this fund can be used more profitably by the College for other purposes than those herewith stated, it is my desire that they shall act in accordance with their judgment." Present book value, \$9,227.07.

SCHOLARSHIP IMPROVEMENT PRIZE FUND

Founded in 1913 by gift of \$2,000 par value of bonds, book value, \$1,200, from John L. Scull, '05. Present book value, \$2,296.88. The income only to be used to establish two prizes of \$50 and \$45 annually to the two students in the graduating class showing the most marked and steady improvement in scholarship during their college course.

ELIZABETH P. SMITH FUND

Founded in 1915 by bequest of \$1,000 from Elizabeth P. Smith. Present book value, \$1,727.00. The income only to be used as a prize for the best essays on Peace written by students of the College.

S. P. LIPPINCOTT HISTORY PRIZE FUND

Founded in 1917 by gift of \$2,500 par value of bonds, book value, \$2,546.88, from beneficiary of the estate of S. P. Lippincott, '86. The income only to be used as an annual history prize, which is designated "The S. P. Lippincott History Prize." The award is to be made on the basis of a competitive essay. In any year when no award is made, the income is to be used for the purchase of library books in the field of the unawarded prize. Present book value, \$2,546.88.

FRANCIS STOKES FUND

Founded in 1919 by gift of \$5,000 in securities, book value, \$5,000, from Francis J. Stokes, '94, in memory of his father, Francis Stokes, of the Class of 1852, and a Manager of Haverford from 1885 until his death in 1916. The income is to be used for extending the planting of trees and shrubs on the College grounds. The wish is expressed, but not as a binding condition of the gift, that the Campus Club should have the direction of the expenditure of this income. Present book value, \$5,120.30.

GEORGE PEIRCE PRIZE FUND

Founded in 1919 by gift of \$600, and increased in 1920 by further gift of \$400 from Harold and Charlotte C. Peirce in memory of their deceased son, George Peirce, '03. Present book value, \$3,071.60. The income only is to be used for a prize, to be called the George Peirce Prize in Chemistry or Mathematics, to the student who, in the opinion of the Faculty, has shown marked proficiency in either or in both of these studies and who wishes to follow a profession which calls for such preparation. Unused income is capitalized, as requested by the founders of the fund. Present book value, \$4,867.99.

LYMAN BEECHER HALL PRIZE FUND

Founded in 1924 by donation of securities of par value, \$2,000, book value, \$1,820, from the Class of 1898 in commemoration of their 25th anniversary of graduation to establish an annual prize of \$100 in Chemistry in honor of Doctor Lyman Beecher Hall, Professor of Chemistry at Haverford College from 1880 to 1917. Present book value, \$2,155.00.

NEWTON PRIZE FUND

Founded in 1925 by donation of five shares of General Electric Co. stock by A. Edward Newton, par value, \$500, and book value, \$1,348.25. The income only is to be used for "The Newton Prize in English Literature to the undergraduate who shall submit the best essay on some subject connected with English literature." In 1930, the award was changed to be on the basis of Final Honors, and in any year when no award is made the income is to be used for the purchase of library books in the field of the unawarded prize. Present book value, \$1,397.75.

EDWARD B. CONKLIN ATHLETIC FUND

Founded in 1925 and added to in 1926, 1927 and 1929 by Frank H. Conklin, '95, in memory of his brother, Edward B. Conklin, '99. Present book value, \$2,400.00. The income is to be used without restriction in any branch of athletics.

EDWARD WOOLMAN ARBORETUM FUND

Founded in 1928 by setting aside \$5,000 from proceeds from sale of 5.811 acres of land on the southern boundary and southeast corner of the College farm, and added to by gift in 1951 (through 1949 Campaign) of \$4,775 and by bequest of \$5,000 from Edward Woolman, Class of 1893,

who died March 11, 1960, the income only is to be used for the preservation and maintenance and for increasing usefulness and natural beauty of the Arboretum, bird sanctuary and grounds of the College, until otherwise ordered by the Managers. The present book value is \$14,362.75.

WILLIAM ELLIS SCULL PRIZE FUND

Founded in 1929 by William Ellis Scull, '83, by a gift of \$2,000. The income is to be used annually, so long as the Managers may judge expedient, as a prize to be awarded at Commencement by the Faculty to that upper classman who in their judgment shall have shown the greatest improvement in voice and the articulation of the English Language. The prize is to be known as "The William Ellis Scull Prize." Present book value, \$2,000.00.

PAUL D. I. MAIER FUND

Founded Tenth Month 7, 1936, by bequest of \$1,000 from Paul D. I. Maier, '96, of Bryn Mawr, Pa. The bequest provides for the continuance of the Class of 1896 Prizes of \$10 each in Latin and Mathematics, and any balance of income is to be used for general purposes. Present book value, \$1,000.00.

STRAWBRIDGE OBSERVATORY MAINTENANCE FUND

Founded Second Month 13, 1937, from donations of \$5,627.37 from members of the Strawbridge family, being the amount in excess of the actual cost of the rebuilding and reequipment of the William J. Strawbridge, '94. Memorial Astronomical Observatory. The income is used for the maintenance and equipment of the observatory. The principal can be used for additional equipment, if so determined by the Board of Managers. In 1938 and 1939 an astrographic camera was so purchased at a cost of \$1,787.83. Present book value, \$3,839.54.

C. WHARTON STORK ART FUND

In First Month, 1930, C. Wharton Stork, of Class of 1902, donated to the Corporation securities of a then value of \$69,000 on account of a contemplated gift for the purpose of erecting, equipping, and furnishing an Art Museum at the College. Purchases were made by C. Wharton Stork of paintings, which are hung in the Library. This fund is to be liquidated and is not included in the total of the funds.

JACOB AND ENGENIE BUCKY MEMORIAL FOUNDATION

Founded Sixth Month 4, 1942 by gift of \$2,000.00 from Colonial Trust Company of New York and Solomon L. Fridenberg of Philadelphia, co-trustees under the will of Eugenie Bucky, deceased (late of New York), the income only to be used. At the same time accumulated income of \$2,000.00 was also donated as Bucky Foundation Gift, this amount to be available for use for the same purposes as the income of the Foundation. Extracts from Mrs. Bucky's will and codicils in reference to the purposes of the Bucky Foundation are here made as follows:

"The purpose or object of such a Foundation or Fund is and shall be for the encouragement of them who seek new truths, and who endeavor to free and clear from mystery and confusion our knowledge concerning God¹; and thereby to enforce more effectively the common laws of mutual love and obligation, peace and goodwill, between and among our several creeds, races, nations, and markets.²

"My aim, intention, purpose and object is to help in promoting piety among men, enlightening their ignorance and bettering their condition, by making more and more extensive and by spreading among the public at large not only the preaching but also the practicing of the words of the . . . American motto 'In

God We Trust,' and of the . . . Preamble to the Constitution for the United States of America. I believe and therefore I aim, intend and purpose that the uplifting of men, women and children to the standard of life taught in the Scriptures and the Constitution for the United States of America is indeed the work of Charity, dispels ignorance, inculcates generous and patriotic sentiments, and fits the public groups and the individual men or women for their good usefulness in the American Commonwealth."

1. Associated with the American motto "In God We Trust."

2. Associated with the Preamble of the Constitution for the United States of America—"to form a more perfect union, establish justice, insure domestic tranquility, provide the common defense, promote the public welfare, and secure the blessings of liberty to ourselves and our posterity."

In 1945-1946 and 1954-1955 further gifts from the Trustees were added to the fund, Unused income, if any, has also been capitalized. Present book value, \$7,390.14.

MATHEMATICS DEPARTMENT PRIZE FUND

Founded May 20, 1943 from gifts totaling \$900.00 of members of the Mathematics faculty and others. A further gift of \$125 was made in 1943-44. The unused income is added to principal. This capitalized the annual prizes that had been given by the Mathematics professors for many years.

The Mathematics Department Prizes for freshmen, \$25.00, are awarded annually, in competition, by examination. Present book value, \$1,823.77.

WILLIAM T. ELKINTON FUND

Founded Ninth Month 6, 1944, by bequest from William T. Elkinton, of Philadelphia, arising from a Trust set up by him during his lifetime. The principal was \$2,491.50 and income received, \$11.11, a total of \$2,502.61. After the death of a life beneficiary, the Trust provided: "to pay over, assign and transfer one of said equal parts unto the Corporation of Haverford College (a corporation of the State of Pennsylvania); the principal fund thus passing to said Corporation to constitute a part of such endowment as may be established at Haverford College as a fitting memorial of Friends' relief work abroad, which memorial 'should foster the peaceful relations of the United States with foreign countries by acquainting our youth with the principles of European governments and with international problems'; provided however, that if no such Endowment should be established at Haverford College prior to the expiration of one year after the principal of the Fund hereby conveyed becomes distributable under the provisions of this deed, the said one-third part of the fund hereby conveyed shall be devoted by the Corporation of Haverford College for such other purpose as the Trustees acting hereunder, their survivor or successor, shall designate, preferably for the furtherance of education in some form at Haverford College or for providing assistance in the form of scholarships to promote education."

In accordance with a suggestion from President Morley, concurred in by Thomas W. Elkinton representing the Trustees, the Managers voted on Ninth Month 22, 1944, that "the income until otherwise directed, is to be used for traveling and other expenses in the attendance at intercollegiate conferences for discussion of international problems by representatives of the International Relations Club at Haverford." The Trustee further stated "as long as the activities of the Club are closely related to 'acquainting our youth with the principles of European governments and with international problems, the use of the income by the Club would be satisfactory."

TILNEY MEMORIAL FUND

Founded in First Month, 1945, by gifts totaling \$2,000 by I. Sheldon Tilney, 1903, in memory of his parents, John S. and Georgiana E. Tilney. The income is to be used "to try to influence the student body towards a more religious viewpoint of life." Permission was also granted by the donor that "the income may be used also in connection with a scholarship for students in the field of Philosophy or Biblical Literature."

In 1945-1946 the fund was increased to \$5,000, by gifts of \$1,000 from Georgiana S. Kirkbride and \$2,000 from Robert W. Tilney, sister and brother of I. Sheldon Tilney. In 1948-49 a further gift of \$250 was received from I. Sheldon Tilney. In 1949-50 a further gift of \$1,000 and in 1952-53 \$500 was received from I. Sheldon Tilney. Present book value, \$7,000.

CLASS OF 1902 LATIN PRIZE FUND

Founded Second Month 2, 1945, by gift from Class of 1902 of \$142.90, being proceeds of sale of security formerly purchased and held by the Class to perpetuate a Latin Prize of \$10 annually at Haverford. The Class had donated the income for this prize since 1913. An unused balance of \$39.00 of such donations was transferred to the income account of this fund.

CLASS OF 1898 GIFT

Founded Sixth Month 12, 1948, by contributions totaling \$6,100 from members of the Class of 1898 as a 50th Anniversary Gift of their graduation. The conditions of the gift were "For a period of 25 years the income only produced by the fund is to be used to pay the expenses of lectures at the College by qualified persons on such subjects and at such times as the President of the College, with the advice of the Faculty, may think best, including at the discretion of the President, conferences between the lecturers and the students. After August 31, 1973, the income and/or principal of the fund, may, at the discretion of the Board of Managers, be used for any purpose in connection with the College." Present book value is \$6,315.00.

EDMUND J. LEE MEMORIAL AWARD FUND

Founded Eighth Month 31, 1948, by donations totaling \$906.50 from members of the Class of 1943 on the occasion of their Fifth Reunion. The Class desired "to perpetuate the memory of Edmund Jennings Lee, 2nd, its sole member killed in the past war, and to stimulate in the College that spirit of service for which he was known. In 1948-1949 a further gift of \$100 was received from Miss Mildred W. Lee, sister of Edmund J. Lee.

"The proceeds from the invested fund shall be used to establish an annual award to be known as the Edmund J. Lee Memorial Award to be awarded annually beginning in 1949, to the recognized undergraduate organization which has contributed most toward the furtherance of academic pursuits, extra-curricular activities, spiritual growth, or college spirit, in individuals or in the College as a whole during the year. The Award is to be used by its recipient in continuing to render such service."

THE DAVID R. BOWEN PREMEDICAL FUND

Established in 1950 by the family and friends of the late Dr. David R. Bowen, who, regretting a definite lack in his own training, believed strongly that men preparing to be physicians should receive a basic liberal education of the kind offered at Haverford College. The income is to be used at the discretion of the President of Haverford College, to purchase books for the use of premedical students, pay for professional magazine subscriptions, for lecturers, or for any other projects closely related to premedical training. Further gifts have been made yearly to the fund. Present book value, \$902.55.

JONATHAN & RACHEL COPE EVANS FUND

"Founded in 1952, through gifts to the 1949 Campaign by the children and grandchildren of Jonathan and Rachel Cope Evans. The principal is to be invested and the income used one-half for scholarships and one-half for the purposes of the Rufus M. Jones Fund for Advancement of Teaching. If, however, at the expiration of twenty-five years the Board of Managers deems it advisable to use the income, or if necessary the principal, of the Fund for other purposes, it shall be free to do so." A further gift was made in 1952-53 of \$500. Present book value is \$15,043.62.

EDWARD HAWKINS MEMORIAL FUND

Established in 1953 by a gift to the College from the Class of 1937. The Fund is given in memory of Edward Hawkins; a member of that class.

The income to be used for the purchase of equipment required for intramural athletics. If such becomes impracticable, the income is to be used as directed by the Managers. Present book value is \$1,457.44.

WILLIAM W. BAKER PRIZE FUND

"Founded in 1954 by bequest of \$500.00 from Mertie Gay Baker, who died January 31st, 1954, the fund is to be invested and the income given as a prize in the study of Greek. If the study of Greek at the said College should be discontinued, I direct that the income be given as a prize for the study of Latin and should the study of Latin be discontinued, I direct that the income be used as a prize in the study of Ancient History or Biblical Literature."

JOHN G. WALLACE AWARD FUND

This fund established in 1958 by a gift from John G. Wallace and added to annually, is to be used toward the purchase and maintenance of a best actor award cup for Class Night, "and the awarding each year of a silver plated replica of the trophy to the recipient of the award." Present book value \$200.00

CHRISTIAN RELIGION AND THOUGHT FUND

Founded in 1958 by a special grant from an anonymous source, this amount is to be used to establish a fund for purposes connected with the problems of Christian religion and thought.

Until otherwise directed by the Board, the income may be used as directed by Professor Douglas Steere, and the administration of the college; the principal may be expended from time to time upon their recommendation and at the discretion of the Board of Managers for the above purposes. The present book value of the fund is \$4,000.

THE KURZMAN PRIZE FUND

"This fund was established in 1958 by Harold P. Kurzman of New York, to provide a prize for the senior who has generally performed best and most creatively in political science course work. This prize, initially established in the amount of \$125, was given in appreciation of the benefit to Harold P. Kurzman, Jr., '58, from his work in the political science department. In any year when it is the judgment of the department that no work has been performed of sufficient merit to warrant this award, the funds shall be used to purchase books in this field for the Library or shall be expended in other ways for the benefit of the department. Surplus income also may be used in this manner. Present book value \$2,784.38.

FUNDS WITHDRAWN

The following funds left to the college with no restrictions, have been wholly consumed to meet in part the Corporations' share of the Building Program of 1953-1956:

Ellen Waln Fund
Henry Norris Fund
Clarence W. Bankard Fund
Mary Brown Fund
Emma Ridgway Comly Fund
Mary K. Comly Fund
Charles J. Rhoads Fund

STATED MEETINGS OF THE CORPORATION AND THE MANAGERS

The Annual Meeting of "The Corporation of Haverford College" is held in Tenth Month at such time and place as the Board of Managers may determine.

The Stated Meetings of the Managers will be held on the third Sixth-day of First, Third, Fifth, Ninth and Eleventh months.

LEGACIES

The friends of the College, including former students, and all who are interested in the promotion of sound learning, are invited to consider the College in the disposition of their estates by will.

FORM OF BEQUEST OF PERSONAL PROPERTY

I give and bequeath, free and clear of all estate, inheritance or other similar taxes, unto The Corporation of Haverford College, the
sum ofDollars.

FORM OF DEVISE OF REAL ESTATE

I give and devise, free and clear of all estate, inheritance or other similar taxes, unto The Corporation of Haverford College, its Successors and Assigns, in fee, the following described real estates:
(Here describe the real estate.)

LIBRARY OF
HAVERFORD COLLEGE

JAN 26 1962

HAVERFORD COLLEGE

HAVERFORD, PA.

BULLETIN

LIBRARY
REPORTS
1960-1961



***Haverford College Bulletin*, Vol. LX, Number Four, January 1962, Library Reports.** Issued July, October, November and January by Haverford College, Haverford, Pennsylvania. Entered as second-class matter November 2, 1944, at the Post Office at Haverford, Pa., under the Act of August 24, 1912.

REPORTS OF THE LIBRARIAN
and
THE CURATOR
OF THE QUAKER COLLECTION
for
1960-1961



HAVERFORD COLLEGE
HAVERFORD, PA.

REPORT OF THE LIBRARIAN

1960-1961

ALTHOUGH I have only recently completed twelve months as Librarian, I submit herewith my second annual report. This anomaly is due, of course, to the fact that my report a year ago had to be a pastiche of statistics and records from my predecessor's final year in office, plus an expression of a few initial hopes of my own. These I presented with a hesitancy appropriate to my brief acquaintance with the Haverford Library. Now, a year later, I have some fairly definite notions of what I believe to be our Library's strength and weaknesses, its immediate and future needs. Admittedly there is still much to learn about this Library, but I must hope at any rate that my statements in this report do not spring from what Southey calls the glorious assurance of impenetrable ignorance. At the very least I know a lot more than I did last October.

I believe it would be useful on this occasion to take stock of the Haverford Library's principal resources and requirements. My views on these subjects were stated briefly in the January, 1961, issue of *Haverford Horizons* and have been offered at various times during the year to colleagues, committees, college officers, and members of the Board, all of whom have my thanks for listening patiently to submission of Library affairs. I am confident that the concern of Haverford's managers, graduates, and faculty for the welfare of our Library will enable us to make it what it ought to be.

All academic libraries, whatever their size, have certain common, recurrent problems: a condition to be taken for granted as long as collections of printed materials are kept and continuously enlarged in institutions of learning. All libraries have their distinctively local advantages and disadvantages, also. A college library's resources,

services, and adequacy as a comfortable place for study are usually reliable evidence of the standard of work in that college. If Haverford is to maintain educational distinction, the Library's function as the center of study in the humanities and (to a large extent) in the social sciences must be not merely acknowledged but vigorously supported.

I have said before, and now repeat, that while the Haverford College Library does not face immediate crises or emergencies, we have decidedly formidable problems to work out in the near future. The validity of this assertion depends on one's definition of "immediate" and of "crisis". In my opinion we can probably get along as we are for a few more years, but only a few. "Get along," I mean, with our present available space and equipment. If my calculations are anywhere near correct, the present Library building will have no more stack space five years hence. Again, many parts of the building have waited a long time for proper lighting and furnishings. It is imperative, therefore, to plan now for additions, renovations and staff to assure that this library will retain what excellence it has and, secondly, to make it excellent in those respects where it now lags. We shall have to face the necessity of building an entirely new building unless the existing one can be made as spacious and serviceable as the Haverford Library ought to be. This latter alternative calls for extensive replanning of the present building as well as additions to it, but would have the double advantage of being far less costly than a new building and of keeping intact those parts of the present building which have their own architectural or sentimental appeal.

For these reasons, then, a summary review of our main resources and needs is pertinent. Those main resources are the collections of books and periodicals, the staff, and the Library building.

THE COLLECTIONS

In the past academic year, ending June 30, we added 4,864 books; the collection now stands at 221,097. Expenditure for books in 1960-61 totaled approximately \$35,735. Of this sum, all but \$5,000 came from special or endowed funds; that \$5,000 came from a contingency fund provided by the Board a year ago and controlled by the President of the College. I mention this because the Board's decision of May, 1961, to include this sum in the 1961-62 budget, for the purchase of books, was a significant step. For various reasons, special and endowed funds

no longer suffice to buy the books requested. If, in addition to our other funds for book purchases, we shall have a budgetary appropriation from now on, we can increase the annual allotments to the academic departments: a welcome prospect.

One of our special funds last year, a grant from the Ford Foundation in connection with the Asian Studies Program at Haverford, Swarthmore, and Bryn Mawr, enabled the Library to add important works on China and other Far Eastern subjects.

Philips funds made it possible to add a few carefully selected rare books to our collection:

Richard Hooker, *Of the Lawes of Ecclesiasticall Politie*, bks. I-V (first edition), London, 1593-97; Robert Boyle, *New Experiments and Observations Touching Cold, or an Experimental History of Cold, Begun* (first edition), London, 1665; and *A Continuation of New Experiments Physico-Mechanical, Touching the Spring and Weight of the Air* (first edition), Oxford, 1669; Molière, *Les Oeuvres* (the authoritative first posthumous edition of the complete plays), Paris, 1682; Thomas Otway, *Venice Preserv'd* (first edition), London, 1682; and *Windsor Castle* (first edition), London, 1685; Sir Thomas Browne, *Works* (first collected edition), London, 1686; Samuel Richardson, *Clarissa* (fourth edition, the first with complete text), London, 1751.

Although we neither can nor should expect to acquire many rare books, we take satisfaction in possessing first or otherwise rare and notable editions of certain classics. The best of these, as everybody knows, form the collection bequeathed to the College by William Pyle Philips. We buy a few rare books from time to time with the \$2,000 allowed annually for this purpose. Those purchased are works appropriate to the Philips Collection and to the educational work of this college. Nobody need worry lest we be wasting our substance on something that has no relation to the official activities of Haverford. I might add that at least one young Haverford graduate, addicted to the amenities of book-collecting and already owner of a promising collection, owes his interest in such things to a display of the Philips books in this Library.

Unfortunately, we do not yet have a proper vault in which to keep Philips and other rare books. These will not be safe from fire and damp until we have a fireproof room with controlled air. The

Jenks Collection of early Friends tracts suffers every year from mildew. The air in the Treasure Room is bad for books in summer and winter alike. It is prudential to remember that since rare books appreciate in value, they are financial assets as well as bibliographical prizes, and for this reason deserve adequate protection. In today's rare book market the monetary value of the Philips volumes would be at least two or three times the very considerable sum they cost Mr. Philips.

A new Library policy requires transfer of early or rare books from open to caged stacks. No Philips books were in open stacks, but other rare and valuable books were and doubtless some still are. Open stacks are an incomparable advantage to users of libraries, but even in the best of colleges, in the best of all possible worlds, open stacks are not the place for rare books. Last spring a senior asked if he might buy an old volume he found on the open stacks of the fifth floor; this proved to be the first edition of a 1650 book of which few copies in America are recorded. Also there is now a rule forbidding removal from the Library, save with express permission of the Librarian, of any book printed prior to 1700. No more, I trust, will we discover valuable seventeenth-century folios being used as props in dramatic productions in Roberts Hall, as happened last semester.

With regard to funds for the purchase of books, we are better off than ever before, thanks to the \$5,000 added to this year's budget. This happy condition will not last long, but for the present year at least our financial worries do not center on books. They center on periodicals: a fact which may come as a painful surprise to those who recall that Philips money is appropriated each year to cover the cost of "important and learned" periodicals. True, but subscriptions and binding costs increase constantly; departments request new journals; and new subjects and new courses in the curriculum call for new periodicals. In this matter, as in that of books, we save money by co-operation with Bryn Mawr and Swarthmore. Yet co-operation among the three libraries cannot solve financial worries. It reduces costs somewhat, and is in other ways desirable, but cannot eliminate the need of each library's buying for itself materials which are going to be in demand there.

I think we must take a severe look at our periodical holdings to see if we should reduce them, secure more funds for them, or control more stringently the procedure for adding to them. For some years

it was customary to require a department to pay from its allotment the first year's subscription to new periodicals ordered by it. At the end of the first year the Library Committee would be asked to approve transfer of the costs thereafter to the fund annually appropriated from Philips funds for this purpose. This system worked well until about two years ago, when the Philips appropriation no longer met the total cost. One year ago departments were notified that they could no longer assume the Library Committee would approve transfer of any new periodicals to the Philips fund. Worse than that, the Philips appropriation, despite annual increases, is now scarcely enough to pay for the serials (periodicals and continuations) we already have.

We now take 800 serials. It is hard to persuade departments that they can do without some of these. Furthermore, if we have a long run of a periodical we must be very confident, before discontinuing it, that we not only have no more use for it but also that we are not likely to change our minds five or ten years later; for if that happens, we shall have to pay much higher prices for the volumes of the intervening years. Again, curricula, courses, instructors, and interests change frequently; there is no escaping the fact that for these reasons we need new periodicals every year.

In September, 1954, the Library took 486 periodicals and continuations. In September, 1960, the number was 648. The total Philips liability for current periodicals and back numbers (purchases, processing, and binding) in 1951-52 was \$6,832.50; in 1955-56, \$15,826.55; in 1959-60, \$16,763.77; in 1960-61, \$18,484.30. These figures include contributions from the Philips Fund toward salaries of two members of the Library Staff but exclude Philips expenditures for rare books. For 1960-61, 30 per cent of the Philips Program budget was assigned to periodicals; for 1961-62 the figure is 36.6 per cent. Obviously the Philips Program cannot continue to provide annual increases of that size for periodicals; yet money for periodicals must be found. The President, Librarian and Library Committee are studying this problem and hope to find an acceptable answer to it.

THE STAFF

It is a pleasure to report that three members of the staff were promoted, as of September 1, to the professional category; Miss Constance Hyslop, Cataloger; Miss Else Goldberger, to be in charge of acquisitions; and Miss Marija Krasauskas, Cataloger. Another staff

member, Mrs. Marjorie F. Davis, graduated with highest honors from the Library School of Drexel Institute of Technology in June. Two part-time workers, Mrs. Etta Barbour, typist in the Staff Room, and Mrs. Elsie Freeman, research assistant in the Treasure Room, were appointed last year. Mr. Charles N. Welsh, '51, again contributed his services as reference and bibliographical assistant to the staff. We are much indebted to him for this help.

Staff must grow as orders, collections, and services grow. Few persons except those who spend much time in libraries realize the cost and complexity of the labors involved in bibliographical work, in the ordering, cataloging, and circulating of books, and in how much additional work seems to come to the Staff Room each year in the form of special curricular programs, requests, or assignments. Because of this situation, the budget for 1961-62 provided for the addition of one full-time and two part-time employees. One new employee is a bookkeeper who will keep the financial records connected with orders.

Last winter arrangements were made to have a member of the regular staff in the Library each evening (except Saturday and Sunday) until 10:15, and thus available for reference services or emergencies. This scheme proved satisfactory and will be continued. Our evening hours remain 6:45 to 11 o'clock, except that in the examination season the Library remains open until midnight. We shall probably hear from students that they want the building kept open until midnight every night. I am sympathetic with their desire if we can afford to meet it.

The Haverford Library has an able staff who take pride in the services they render to readers. Since I am not an altogether neutral observer, I should like to quote from a letter received last April from a professor in a neighboring institution:

"I am presently doing research for a Ph.D. thesis for which your Library has provided valuable assistance. More important, the library has presented me with a remarkable and rewarding experience. The attitude and service offered to me by your staff has been exceptional. Past experiences with library personnel have often discouraged me as to the role of a university's primary function. In the many libraries I had visited I was left with the impression that I had been trespassing and 'borrowing' private property. My visits to the Haverford Library have been contrary to this experience, and I feel that I have at last visited a library which truly desires that its facilities be used."

I hope it will always be said that the serious visitor gets the impression this library "truly desires that its facilities be used." Once in a while we have had unpleasantness with junior readers from schools, but our rules are by now well understood and respected by most headmasters and principals in the vicinity.

Circulation figures published with this report are considerably higher than those of the preceding year. Total borrowings were 28,317 in 1960-61, compared with 24,333 in 1959-60, and the number of books used from the Reserve Book Room shelves was also noticeably larger. The number placed on reserve last year was 4,259 as against 2,834 the year before. Yet all books on reserve were put there for only 59 of the 150 courses taught in the College. And of these 59 courses, one fourth accounted for 60 per cent of the total circulation of reserved books.

Interlibrary Loan is a time-consuming service to which our contribution is rather greater than our profit, yet we feel an obligation to provide this service and we profit enough by it to justify the trouble it takes. Last year we borrowed 441 books and loaned 900 to and from a total of 190 different colleges and commercial institutions. Ten years ago we borrowed 141 and loaned 569; five years ago, 332 and 733. That we lend twice as many as we borrow is due to the fact that other good libraries are accessible to our students and faculty; secondly to the fact that we have in our collections some fairly scarce materials. Thus we were able last year to supply a scarce edition of an important mathematical work to a publisher who wished to issue an inexpensive paperbound edition. To a foreign literary scholar hoping to find something on Wordsworth and his contemporaries in our manuscript collection, we were able to send microfilms of a dozen letters by Wordsworth, Coleridge, Lamb, and Southey. Other examples could easily be added.

LIBRARY BUILDING

I come next to our third resource, the Library building, which is a topic much on my mind but difficult to expound briefly. Strictly speaking, we have not one building, constructed as a library, but the original room (North Wing), latterly renovated, plus the former Alumni Hall and a South Wing, plus the large annex built twenty years ago to house the stacks. All these together form a building which has its attractions and is refreshingly unlike a bank or a

supermarket in appearance, but is rapidly becoming seriously inadequate to our needs. Minor "housekeeping" improvements are made every year—last year, for example, a large fan was installed on the roof, to improve ventilation on the fourth and fifth floors of the stacks; the Rufus Jones Study was refurbished; and the roof repaired—but we confront two major problems that demand solution if we are to house a first-class library in the present building much longer and if we are to provide first-class service.

The major problems are anything but novel to you, but I consider it my duty to place them before you as often as you permit.

The first is storage space—that is, stack space. There is a predictable rate of growth in the Library; we can estimate pretty closely the date when the present building will be filled. After that we shall have to add temporary shelves wherever we can find or steal space to do so, a procedure which will impair efficiency and provide at best but a short-term solution; or else we shall have to have a new building; or, third, build as least one large annex to the present building and redesign parts of this building.

I believe that the time when the present building will be uncomfortably crowded is close at hand. In 1950 our Library contained 182,034 volumes; in 1955, 200,390; in June, 1961, 221,097. The rate of growth is now well above 4,000 per year. If this continues—and of the making of books there is no end—the Library in 1970 will have at least 20,000 more books than it has now. Even when we have converted all the present faculty offices in the building into stack space, we cannot put in those stacks more than 12,000 to 14,000 volumes. Of the five floors of stacks, the first, second, third and fifth are already filled; there is room for perhaps 4,000 books on the fourth floor. After that we shall have to improvise, putting shelves along whatever available wall space we can find.

The library in the new science building will permit removal of some books now in the main Library, but not enough, because many scientific books are already kept in other buildings on the campus. Nor, alas, can we look to a deposit library in Philadelphia to solve our space problem in the near future. In last year's report I expressed hope that plans for such a central depository would soon be realized. So few libraries showed interest in the project, however, that it has been abandoned or indefinitely postponed. This seems a strange lack

of foresight on the part of libraries in the Philadelphia area, but nothing can be done about it at the present time.

There remains always the possibility of discarding books far more ruthlessly than we do now. We discard some every year, and in some years many more than in others; but I am not inclined to decimate present collections merely to make room for additions. In explaining their mystery to one another, librarians at times bewitch themselves with metaphorical homilies about the urgency of pruning in order to let the main tree grow healthily, and so on. This makes sense, to be sure, but our space problem must be solved either by radical surgery instead of mere pruning, or by getting more space. We do not have vast numbers of books that are not useful here.

That is the situation in brief. We cannot wisely get rid of many thousands of books. We cannot put everything on film. We have no deposit library in sight; and even if we had one, it would not answer all our needs, although it would be a distinct gain. We know approximately how many books we can expect to add per year. We know how to estimate how much stack space these physical objects occupy. The conclusion is that very soon the College will be faced by the urgency of providing that space.

The other main problem is that of improving our present facilities. The North Wing and the Gummere-Morley Room are the only really comfortable rooms for study in the Library. As a result these rooms are overcrowded. We have only forty carrels in the stacks. We have no room where students may type and no adequate browsing room. The Staff Room is more than crowded. In the main reading room and South Wing the tables and chairs are uncomfortable and unattractive; moreover the main reading room is too noisy because of the continual traffic between the Circulation Desk, Public Catalog, Staff Room, and stacks. Student preference for the North Wing is therefore understandable.

All this is familiar enough to daily users of the building. It suggests that a thorough study of the best methods of utilizing the South Wing and main reading room is the first desideratum. I have no doubt that the South Wing must be renovated and that the central part of the building, i.e. what I have called the main reading room (the old Alumni Hall), containing the periodical section, Circulation Desk, Reserve Room, reference section, and study alcoves, needs major

alterations. Other parts of the building may likewise need drastic alterations.

We all agree, I take it, that Haverford stands for plain living and high thinking. We do not require a library that is too luxurious or club-like. But our Library, except in the North Wing, is in little danger of turning its users into Sybarites. After contrasting the amenities of Harvard's Lamont Library, the Princeton Library, or dozens of other fairly recent library buildings, including many in small colleges, with the distinctive Haverford furnishings, lighting, and lack of ventilation, we may reflect with virtuous pride on our plain living but wonder if we do not carry simplicity too far. Haverford students deserve more comfortable surroundings in a library than they now have. And possibly the Library manners of our students (at times an embarrassing problem) would be less imperfect if the Library itself were a more attractive place.

Within a fairly short time, I repeat, we shall need at least one major addition to the present building. If a new wing or wings were large enough, they would enable us to avoid for many years the construction of an entirely new building. By "large enough" I mean sufficient to double the capacity of the present building.

The Development Campaign includes the sum of \$200,000 for Library needs. With half of this money we could add about \$4500 per year for purchase of books and periodicals; with the remaining half we could build a vault, electrify the book lift, add new catalog cabinets, new lighting and a few other things. For the major improvements I have named, a very much larger sum would be needed. The Library Committee, the Committee on Non-Science Needs, and other committees have discussed the Library situation at length and will continue to do so. We must all hope, in the best interests of Haverford College and its tradition of excellence, that the Library's needs will be met. Meantime there is nothing wrong with building castles in the air. It is salutary to recall Thoreau's words: "If you have built castles in the air, your work need not be lost; that is where they should be. Now put the foundations under them."

GIFTS

The Library is grateful to many friends for gifts received during the year.

The Class of 1961 gift of \$350 will be used to refurnish the Matzke Room and the adjoining Reference Alcove.

From the Library of the late President William Wistar Comfort the Library received about 500 books, including many on Quaker subjects.

From the John Anson Kittredge Educational Fund we again received \$250 for the purchase of books on foreign relations, diplomatic history, and music. Also Mrs. Tracy B. Kittredge presented to the Library about 1500 books, many of them on history, government, and the arts, from the library of the late Capt. Tracy B. Kittredge.

Mrs. Margaret Conklin gave \$100 toward the preservation and development of the Haverfordiana Collection. Mr. Morris M. Wexler contributed \$100 to the book funds, in memory of Sylvia G. Wexler.

Mrs. Ira Jewell Williams, Jr., placed on loan in the Library 500 books, mostly on literature and social science, from the library of the late Ira Jewell Williams, Jr., Esq.

Eric J. Harrison, '58, contributed \$25 for purchase of books on East Asia.

Gifts of books, pamphlets, or Haverfordiana were received from the following alumni:

Alan W. Armstrong, '61; Francis James Dallett, Jr., '50; Peter B. Gontrum, '54; Henry G. Horwitz, '59; John S. Howe, Jr., '61; John D. Kenderdine, '10; Mark C. Lissfelt, '54; Hugh C. McLean, '61; Edwin D. Miner, '21; Stephen B. Sarnoff, '58; William Speakman, '61; Leland E. Stevenson, Jr., '60; Charles M. Tatum, '28; Willard P. Tomlinson, '10; Louis R. Wilson, '99; R. B. Winder, '43; James Wood, III, '50.

From the following members of the Haverford Faculty: President Hugh Borton; Professors John Ashmead, Thomas A. Benham, Henry J. Cadbury, John R. Cary, Howard Comfort, Thomas E. Drake, John W. Flight, Harvey Glickman, Louis C. Green, Clayton Holmes, Holland Hunter, George Kennedy, D. P. Lockwood, Wallace MacCaffrey, Harry W. Pfund, L. A. Post, Ralph M. Sargent, Fay Selove, Louis Solomon, Herman M. Somers, John P. Spielman, Jr., Howard Teaf, Craig R. Thompson, Russell R. Williams, Jr., Estate of Legh W. Reid.

Also from the following: G. E. Allen, Atlantic Refining Co., Professor Warner Berthoff, John Blair, The Bookmailer, Inc., Alan Bul-

lock, Paul S. Cadbury, Warder Cadbury, Kenneth Carroll, Jervas A. Cary, Aldo Caselli, George Catlin, K. C. Chacko, Ciba Foundation, E. R. Clifford, Robert C. Clothier, Committee for Economic Development, Henry Cowell, Frederick R. Daries, H. S. Drinker; In memory of Henry and Mia Elbertson; Hilary Ferrand, Irving Norton Fisher, Folger Shakespeare Library, Thomas M. Fraser, William J. Ghiglione, Robert Grey, William Hoerber, Clarence J. Huddleston, William H. Jackson, Hilda Jaeckel, Mrs. Joseph B. Jamieson, The Japanese Consulate General, New York; Mary Hoxie Jones, Philip Krone, Richard D. Kubik, Aaron D. Lemonick, Mrs. Samuel McCreery; In memory of Francis Norton Maxfield, '97; Stephen H. Miller, Conrad H. Moehlman, Robert H. Montgomery, George L. Morris, National Book Foundation, New York; William M. Oman, J. H. Pearce, Jean Piaget, Mrs. T. Beach Platt, Amy Post, Pauline Pritchard, Richard Rollins, Bernard Rosenblatt, John Alexander Sawhill, R. H. Seibert, Mrs. Joseph W. Sharp, Carl S. Shoup, Steven Sieverts, Paul S. Smith, Willard A. Speakman, Jr., David E. Swift, Frederick B. Tolles, Alderman Library of the University of Virginia, Walter A. Weiss, Mrs. Allison Pawling Wesley, Elizabeth A. Williamson, E. K. Winter, Ernest Wood, Mrs. William J. Young.

Subscriptions from the following: First National Bank of Santa Fe, New Mexico; Robert L. Martin, '61; Charles A. Robinson, '28; Harold S. Thomson, '43.

Last year we again received a contribution from the Library Associates toward the purchase of books of current interest. The Associates held four Sunday afternoon meetings in the Treasure Room. Speakers were the Librarian, on "Before and After Printing"; Professor Theodore Hornberger, of the University of Pennsylvania, on Robert Montgomery Bird; Professor John A. Lukacs, of Chestnut Hill College, on problems of historiography; and Professor A. William Salomone, of New York University, on the Risorgimento. Professor Lockwood arranged appropriate exhibits for each of these events.

Other exhibits during the year related to Haverfordiana, rare books newly acquired, the history of writing, Quaker documents, and the American Civil War.

In January a tea was held in the Treasure Room on the occasion of presentation of books on Japan by the Japanese Consulate of New York. The Consul General, Mr. Mitsuo Tanaka, and members of his staff were present.

The Library last year made a census of College portraits. A card catalog is available in the Treasure Room; another is deposited in Roberts Hall.

I wish to thank all members of the Library staff for their generous assistance during an extremely busy year.

CRAIG R. THOMPSON

STATISTICS FOR REPORT OF THE LIBRARIAN 1960-1961

Growth of collections

Total number of volumes (as of June 30, 1961)	221,097
Number of volumes added in 1960-1961:	
By purchase	3,914
By gift	770
Government Depository	180
Number of books discarded	112

Circulation

Faculty and staff borrowings	3,714
Students	17,634
Outside borrowers	5,873
Total	27,221
Books charged out to carrels	1,096
Total	28,317

Reserve Book Room

Books put on reserve	4,259
Reserve book circulation:	
Library use	20,835
Overnight	5,334
Total	26,169

Interlibrary Loan

Borrowed	441
Loaned	900

APPENDIX

An analytical bibliography of the collection of rare books bequeathed by William Pyle Philips was made by Professor C. William Miller of Temple University and published by Haverford College in 1952. Because few copies of this bibliography remain, it may be useful to print here a check-list of the Philips books. In the next report of the Librarian a list of rare books added since 1952 will be printed.

WILLIAM PYLE PHILIPS COLLECTION, HAVERFORD COLLEGE LIBRARY

1. THE ARTE OF ENGLISH POESIE

[*generally attributed to George Puttenham*].

Contrived into three books: the first of poets and poesie, the second of proportion, the third of ornament. London, Richard Field, 1589.
First edition.

2. BACON, FRANCIS.

The essays or counsels, civil and moral, of Francis Lo. Verulam, Viscount St. Alban. Newly written. London, John Haviland for Hanna Barret, 1625.
Thirteenth edition, second issue.

3. BACON, FRANCIS.

The two books of Francis Bacon. Of the proficiency and advancement of learning, divine and human. London, [Thomas Purfoot] for Henry Tomes, 1605.
First edition.

4. BEAUMONT, FRANCIS, & FLETCHER, JOHN.

Comedies and tragedies written by Francis Beaumont and John Fletcher Gentlemen. London, Printed for Humphrey Robinson . . . and for Humphrey Moseley . . . 1647.
First edition.

5. BIBLE, KING JAMES.

The Holy Bible, containing the Old Testament, and the New: newly translated out of the original tongues. London, Robert Barker, 1611.
First edition of the Royal Version ('He' Bible).

6. BOCCACCIO, GIOVANNI.

The Decameron containing a hundred pleasant novels. London, Isaac Jagard, 1620. 2 vols.
First edition.

7. BRANT, SEBASTIAN.

Stultifera Navis . . . e Latino sermone in nostrum vulgarem versa . . . The ship of fools . . . translated out of Latin into English by Alexander Barclay. [London, John Cawood] 1570.
Second edition.

8. BURTON, ROBERT.

The anatomy of melancholy . . . by Democritus Junior [pseud.]. Oxford, John Lichfield and James Short, for Henry Cripps, 1621.

First edition.

9. CERVANTES SAAVEDRA, MIGUEL DE.

El ingenioso hidalgo Don Quixote de la Mancha. Compuesto por Miguel de Cervantes Saavedra. Dirigido al duque de Bejar, marques de Gibrleon. Madrid, Juan de la Cuesta, 1605-15. 2 vols.

Vol. 1, second edition.

10. VOL. 2, FIRST EDITION.

11. CERVANTES SAAVEDRA, MIGUEL DE.

The history of Don-Quichote . . . Translated [by Thomas Shelton] into English. London, Printed for Edward Blount, 1620. 2 vols.

First complete edition; Vol. 1, second edition; Vol. 2, first edition.

12. DANIEL, SAMUEL.

The civil wars between the Houses of Lancaster and York corrected and continued by Samuel Daniel. London, [Humphrey Lowndes for] Simon Watersonne, 1609.

Second edition.

13. DANTE ALIGHIERI.

La comedia. Foligno, John Numeister, 1472.

First edition.

14. DEKKER, THOMAS, & WEBSTER, JOHN.

North-ward ho. Sundry times acted by the children of Paul's, by Thomas Dekker, and John Webster. London, George Eld, 1607.

First edition.

15. FLORIO, JOHN.

A world of words, or most copious, and exact dictionary in Italian and English, collected by John Florio. London, Arnold Hatfield for Edward Blount, 1598.

First edition.

16. FORD, JOHN.

The chronicle history of Perkin Warbeck. A strange truth . . . [A tragedy]. London, Thomas Purfoot for Hugh Beeston, 1634.

First edition.

17. FORD, JOHN.

The fancies, chaste and noble . . . [A comedy]. London, Elizabeth Purslowe for Henry Seile, 1638.

First edition.

18. FORD, JOHN.

The lady's trial . . . [A play]. London, Edward Griffin for Henry Shephard, 1639.

First edition.

19. FORD, JOHN.
The lovers' melancholy . . . [A tragi-comedy]. London, Felix Kingston for Henry Seile, 1629.
First edition.
20. FORD, JOHN.
Love's sacrifice . . . [A tragedy]. London, John Beale for Hugh Beeston, 1633.
First edition.
21. FORD, JOHN.
'Tis pity, she's a whore . . . [A tragedy]. London, Nicholas Okes for Richard Collins, 1633.
First edition.
22. HERRICK, ROBERT
Hesperides: or, the works both human and divine of Robert Herrick. London, Printed for John Williams, and Francis Eglesfield, 1648.
First edition.
23. HEYWOOD, THOMAS.
Troia Britanica: or, Great Britain's Troy. A Poem . . . Written by Thomas Heywood. London, William Jaggard, 1609.
First edition.
24. HOLINSHED, RAPHAEL.
The chronicles of England, Scotland, and Ireland . . . by Raphael Holinshed. London [Henry Bynnenman] for George Bishop, 1577. 2 vols.
First edition.
25. HOMER.
The whole works of Homer . . . In his Iliads, and Odysseys. Translated according to the Greek, by George Chapman. London, Printed for Nathaniel Butter [1616].
First edition of the collected works.
26. JOHNSON, SAMUEL.
A dictionary of the English language . . . By Samuel Johnson. London, W. Strahan, for J. and P. Knapton, 1755. 2 vols.
First edition.
27. JONSON, BENJAMIN.
The works of Benjamin Jonson. London, Will Stansby, 1616.
First collected edition, small paper copy.
28. JONSON, BENJAMIN.
The works of Benjamin Jonson . . . The second volume. London, Printed for Richard Meighen, 1640.
First collected edition of these writings.

29. LA PRIMAUDAYE, PIERRE DE.

The French Academie, wherein is discoursed the institution of manners . . . by Peter de la Primaudaye . . . newly translated into English by Thomas Beard. London, Printed for Thomas Adams, 1614.

Fifth edition, but first edition of the complete text in translation.

30. MARSTON, JOHN.

The works of Mr. John Marston. London, [Augustine Mathewes] for William Sheares, 1633.

First edition, first issue.

31. MILTON, JOHN.

Paradise Lost. A poem written . . . by John Milton. London, Peter Parker, Robert Boulter, and Matthias Walker, 1667.

First edition.

32. MILTON, JOHN.

Paradise Regain'd. A poem . . . To which is added Samson Agonistes. The author John Milton. London, J.M. for John Starkey, 1671.

First edition.

33. MONTAIGNE, MICHEL DE.

The essays or moral, political and military discourses of Lo: Michael de Montaigne . . . And now done into English [by John Florio]. London, Valentine Sims for Edward Blount, 1603.

First edition.

34. MONTEMAYOR, JORGE DE.

Diana of George of Montemayor. Translated out of Spanish into English by Bartholomew Yong. London, Edmund Bollifant, Impensis George Bishop, 1598.

First edition.

35. NASHE, THOMAS.

Have with you to Saffron-walden. London, John Danter, 1596.

First edition.

36. NEWTON, SIR ISAAC.

Philosophiae naturalis principia mathematica. Autore Js. Newton. London, Joseph Streater, 1687.

First edition, first issue.

37. PAINTER, WILLIAM.

The palace of pleasure beautified . . . By William Painter. London, [John Kingston and] Henry Denham, for Richard Tottell and William Jones, 1566.

First edition.

38. PAINTER, WILLIAM.

The palace of pleasure. The second tome . . . By William Painter. London, Henry Bynneman, for Nicholas England, 1567.

First edition.

39. PEELE, GEORGE.

The love of King David and fair Bethsabe . . . Written by George Peele.
London, Adam Islip, 1599.

First edition.

40. FAIR EM.

A pleasant comedy of Fair Em, the miller's daughter of Manchester.
London, [John Haviland] for John Wright, 1631.

Second edition.

41. PLUTARCH.

The lives of the noble Grecians and Romans compared together by . . .
Plutarke of Chaeronea. Translated out of Greek into French by James
Amyot . . . and out of French into English, by Thomas North. London,
Thomas Vautroullier for John Wight, 1579.

First edition.

42. THE PURITAN.

The Puritan, or The widow of Watling-street. Acted by the children of
Paul's. Written by W. S. London, G. Eld, 1607.

First edition. Attributed to William Shakespeare and to Wentworth Smith.

43. SALUSTE DU BARTAS, GUILLAUME DE.

Bartas his divine weeks and works. Translated . . . by Josiah Sylvester.
[London, Humfrey Lownes, 1605]

First edition, large paper copy.

44. SHAKESPEARE, WILLIAM.

Comedies, histories, and tragedies. London, Isaac Jaggard, and Edward
Blount, 1623.

First folio edition.

45. SHAKESPEARE, WILLIAM.

Comedies, histories, and tragedies . . . The second impression. London,
Thomas Cotes, for Robert Allot, 1632.

Second folio edition.

46. SHAKESPEARE, WILLIAM.

Comedies, histories, and tragedies . . . The third impression. And unto this
impression is added seven plays, never before printed in folio. London,
Printed for Philip Chetwind, 1664.

Third folio edition, second issue.

47. SHAKESPEARE, WILLIAM.

Comedies, histories, and tragedies . . . Unto which is added, seven plays,
never before printed in folio. London, Printed for Henry Herringman,
Edward Brewster, and Richard Bentley, 1685

Fourth folio edition.

48. SHAKESPEARE, WILLIAM.

The chronicle history of Henry the Fifth. [London, William Jaggard] for
Thomas Pavier, 1608 [1619].

Third edition.

49. SHAKESPEARE, WILLIAM.

True chronicle history of the life and death of King Lear, and his three daughters. [London] Printed for Nathaniel Butter, 1608 [1619].

Second edition.

50. SHAKESPEARE, WILLIAM.

The excellent history of the merchant of Venice . . . Written by W. Shakespeare. [London] J. Roberts, 1600 [1619].

Second edition.

51. SHAKESPEARE, WILLIAM.

The tragedy of King Richard the Second . . . By William Shakespeare. London, [Thomas Purfoot] for Mathew Law, 1615.

Fifth edition.

52. SHAKESPEARE, WILLIAM.

The most lamentable tragedy of Titus Andronicus. London, [Edward Allde] for Edward White, 1611.

Third edition.

53. SHAKESPEARE, WILLIAM.

The two noble kinsmen . . . Written by . . . John Fletcher and William Shakespeare. London, Thomas Cotes, for John Waterson, 1634.

First edition.

54. SHAKESPEARE, WILLIAM.

The whole contention between the two famous houses, Lancaster and York. With the tragical ends of the good Duke Humfrey, Richard Duke of York, and King Henry the Sixth . . . Newly corrected and enlarged. Written by William Shakespeare. London, [William Jaggard] for Thomas Pavier [1619].

Third edition of Henry VI, Parts II-III.

55. SIDNEY, SIR PHILIP.

The Countess of Pembroke's Arcadia. Written by Sir Philip Sidney. Now since the first edition augmented and ended. London, [Thomas Creede] for William Ponsonby, 1593.

First collected edition.

56. SPENSER, EDMUND.

The faerie queene. [Books I-III]. London, [John Wolfe] for William Ponsonby, 1590.

First edition.

57. SPENSER, EDMUND.

The faerie queene. The second part, containing the fourth, fifth, and sixth books. By Edmund Spenser. London, [Richard Field] for William Ponsonby, 1596.

First edition.

58. SWIFT, JONATHAN.

Travels into several remote nations of the world . . . By Lemuel Gulliver [pseud.]. London, Printed for Benjamin Motte, 1726. 2 vols.

First edition.

REPORT OF THE CURATOR OF THE QUAKER COLLECTION

1960-1961

MAJOR staff changes made 1960-61 a year of transition for the Quaker Collection and the Treasure Room. The stimulating inquiries of a new College Librarian gave occasion for evaluating the work of the past few years, and for reviewing our concepts as to the place of the Quaker Collection, the Rufus M. Jones Mysticism Collection, the Charles Roberts Autograph Collection, the Archives of the American Friends Service Committee, and the Library's rare books in the life of the College, in the work of the Society of Friends, and in the world of scholarship. The results of this re-thinking will appear in time to come. Meanwhile we can report a quiet but fruitful year of growth.

Changes in the working staff of the Treasure Room required a new allocation of responsibilities. Mrs. Marjorie Davis, who came to the Library in September, 1960, gave half her time to work in the Quaker Collection. A graduate of Juniata College, an experienced librarian, and since June, 1961, holder of a degree of Master of Science in Library Science from the Graduate School of Library Science, of the Drexel Institute of Technology, Marjorie Davis spent the year in cataloguing new Quaker books, in revising and bringing up to date our system of caring for our 80 current Quaker periodicals, and in supervising the cataloguing of Quaker manuscripts. In her final course at Drexel she used these manuscripts in connection with a special project in the care of manuscript collections, thereby familiarizing herself with Haverford's unique Quaker letters, journals and other records, as well as training herself in the techniques of handling such material. Mrs. Davis also attended Professor Henry J. Cadbury's course in the History and Philosophy of Quakerism this spring, in

order to broaden her knowledge and understanding of Quaker history and thought.

Mrs. Bess Haakinson, Supervisor of the Treasure Room, carefully and cheerfully performed the great variety of tasks which have come her way: assisting the Curator, preparing the eleven exhibits of the year, caring for the rare books, managing the daily routine of the Treasure Room, and doing the time-consuming and important work of caring for the membership rolls and mailing list of Friends Historical Association.

To help these regular staff members we employed, thanks to the generosity of the Trustees of the William H. and Mary Williams Shoemaker Fund, two part-time assistants. Mrs. Etta Barbour, a skilled typist, began the final typing of the catalogue cards which Mae Craig, Carla Craik, and Hilary Ferrand prepared a year earlier when we began the long-term project of re-cataloguing by modern standards our rarer Quaker volumes of the 17th and 18th centuries. Mrs. Elsie Freeman, a trained editor, worked under Mrs. Davis in cataloguing recent gifts of Quaker manuscripts. These include several large groups of material — the Henry H. Albertson Collection, given by Edith Albertson Greene; the Kite-Sharpless Collection, the gift of Susanna Smedley; and further additions to the Allinson Collection, donated by Margaret Taylor MacIntosh and Frederick R. Wulsin. These gifts included letter books, autograph letters, journals, account books, marriage certificates, deeds, indentures, wills, clippings, photographs, silhouettes, and meeting house pictures.

Part of the work of the year went on in the absence of the Curator, while he took special leave to go to Palestine and Greece during the spring term. All of the work benefited as usual from the skilled aid of the general Library staff, who helped at every turn in the details of acquiring, processing, and lending Quaker books and periodicals. As we approach the year to come we do so with a feeling of confidence in the growing experience and enthusiasm of the whole staff.

Our major gifts we have mentioned above or included in the appended lists. With regard to these gifts it is interesting to note that many of them come from Friends and friends of Haverford at a considerable distance from the campus; also, that the continued interest and efforts of certain Friends nearby do much to ensure a steady flow of Quakeriana to Haverford. Henry Cadbury serves as a channel

for many of our gifts as well as turning up a great variety of obscure and interesting things himself. Mary Hoxie Jones keeps on the alert for new additions to the "Writings of Rufus M. Jones," and this year, while she has been engaged in preparing a history of New England Yearly Meeting, she has not only used the Quaker Collection daily but has brought many new things to it. Howard Comfort has provided some unusual bits of Haverfordiana, as has Dr. Frederic C. Sharpless. William Bacon Evans frequently contributes new Quaker material; we have rejoiced in his renewed interest in working at Haverford on his Dictionary of American Quaker Biography, after a period of illness and other activities.

It is gratifying to report that the members of the Smiley family, who in 1949 gave the Mohonk Fund for the addition of books to the Rufus M. Jones Collection on Mysticism, have this year decided to extend the purposes of the Fund to include books on Quakerism and Religion, since we have found that a restricted bequest left by the will of Rufus Jones just after the gift of the Mohonk Fund has fully provided for the purchase of material on Christian mysticism.

Purchase funds such as that from Mohonk enable us occasionally to acquire some unusual Quaker item, such as the Journal of Stephen Gould which we discovered and bought this year. On the worn and stained paper cover of this thick handwritten volume, a diary containing both the religious and secular observations of a Newport, Rhode Island, Friend during the War of 1812, appears the tantalizing figure, "No. 11." This seems to imply that at least ten other such diaries originally existed, and, since the diarist lived until 1838, it suggests that he may have written later volumes as well. Our "No. 11," however, seems to be unique, for it came to us through an antique dealer who must have found it in a drawer of an old table or desk, and from him through a Connecticut bookseller who specialized in rarities of American literature; neither of these men has been able to turn up any other volumes of this diary. Haverford's collection of Quaker journals and diaries in manuscript runs to more than 300 different items, but few of them rival this Stephen Gould Journal for the liveliness and general interest of its entries.

Among the eleven exhibits prepared by Bess Haakinson that of *The Holy Experiment* (Philadelphia, 1922), with the color plates from the great folio by Violet Oakley, reproducing her murals at Harrisburg, proved to be most timely. Early in the fall we placed this

exhibit in the large wall case in the Catalogue room. About the same time the Friends William Penn Committee of Philadelphia Yearly Meeting persuaded Miss Oakley to present one of the few remaining copies of this large leather-bound volume to the library of the United Nations, just as she had given a copy to the League of Nations library in Geneva thirty years ago. On October 24th, the birthday of William Penn and United Nations Day, the Committee and the artist went to New York to present the folio, while the Committee also gave a copy of the smaller, black and white version of the book to each member representative at the United Nations. In due time we mounted photographs of the presentation ceremony with our exhibit. At this point Richmond P. Miller, Associate Secretary of Philadelphia Yearly Meeting, saw the exhibit, and insisted that it should be transferred to Philadelphia for the Yearly Meeting at the end of March. This we did, and hundreds of Friends as well as thousands of visitors to the Arch Street Meeting House have seen this tribute to William Penn and his plan for a Holy Experiment in Pennsylvania. Violet Oakley's subsequent death closed the career of one of Pennsylvania's most distinguished artists, who, although not a Friend herself, joined the Friends in devoting her great energy and talent to the promotion of peace through the application of Christian principles in world law.

Each year sees Haverford's collections of books, periodicals, manuscripts and indexes, Quaker and non-Quaker, drawn more and more into the province of scholars everywhere through our participation in national indexes and guides. Recently we reported our holdings of American literary manuscripts in the Roberts and Christopher Morley Collections to the American Literature Group of the Modern Language Association of America which is sponsoring a survey. This work has now been published under the editorship of Professor Joseph Jones at the University of Texas. We are also in the process of preparing data sheets concerning our manuscript holdings for the National Union Catalog of Manuscript Collections at the Library of Congress. This spring a commercial publisher photographed all the cards in our Quaker Necrology Index (a card file of over 59,000 entries showing the death notices of Friends as reported in the Philadelphia Quaker periodicals since 1828) and he has now published for subscribing libraries a two-volume reproduction of this unique index. Copies are available through G. K. Hall & Co., Boston. All these national guides to which we have contributed mean that an increasing number of

scholars, genealogists, and general inquirers will find their way to Haverford in the future.

Finally I should like to mention a small service to a Haverford family which we were pleased to be able to perform recently. A report came that researchers for a family which has been prominent in Philadelphia since William Penn's time, while engaged in the process of checking and completing a set of family letter books, had come across a series of blank pages on which appeared only a note to the effect that the Revolutionary letters of the family — a fascinating correspondence between a Quaker wife and her husband who had been separated by the husband's having been exiled to Virginia by the Pennsylvania authorities — had been given to Haverford College; that the College was to prepare a typewritten copy of the letters, and return carbon copies to the family. But no trace of the carbons could be found. What did Haverford know about this?

The gift in question came to the College more than a quarter of a century ago, three or four years before the term of the present Curator began. However, safely filed and catalogued in the Quaker Collection, we found all the original Revolutionary letters, each with a neat typewritten copy filed with it. But no carbons!

Subsequently the family researchers discovered that the carbon copies had been donated to a Philadelphia historical library years ago. Photocopying them, as the family wished to do in order to complete their own letter books, would, however, have required a meeting of the Philadelphia library's Board of Directors, to permit the former donors to use the letters. Haverford, happily not so bound, lent its typescript letters immediately. Within a week or so our copies went to Philadelphia, where the researchers photo-copied them cheaply and expeditiously at their own office, and sent them back to Haverford. We like to think that at Haverford we can be as continuously useful to former donors as we try to be to users of books and manuscripts in the Quaker Collection, and in this case our hopes came true.

THOMAS E. DRAKE

GIFTS AND ACQUISITIONS

The following gifts deserve special notice:

For the Quaker Collection:

From Francis R. Bacon, Lansdowne, a letter from Nathaniel Crenshaw dated Hanover, 9th, 1st mo. 1838, to Dr. George F. Terrill giving Joseph John Gurney's preaching itinerary and asking that arrangements be made for a meeting in Carolina.

From President Hugh Borton, an address, "Japanese Young People Today," by Elizabeth Gray Vining, given at the One Hundred and Forty Sixth Annual Meeting of the Athenaeum of Philadelphia, February 6th, 1961.

From Professor Henry J. Cadbury, *Barrow Cadbury*, a memoir by Percy W. Bartlett with an introduction by Henry J. Cadbury; a bound volume: *Jericho Friends Meeting and its Community 1818-1958* and a number of Quaker pamphlets, namely: "Rain on the Mountain," by Douglas Steere; "Collected Traditions of 'Ye Olde Log Cabin Town' at Chesterhill, Ohio," by Minta Hoopes; "The Paradox of the Quaker Ministry," by D. Elton Trueblood; and "Nathaniel Newlin, Trip to Indiana, 1819," by Willard Heiss; given by Frederick B. Tolles through Henry J. Cadbury: a mimeographed degree thesis, "Les Visage Europeen de William Penn," by Alice Dupuis, for Institut d'Etudes et de Recherches Diplomatiques, Paris, 1958; a privately printed mimeographed book, *Memoirs of a Quaker Childhood in Ireland and Pennsylvania*, by Louisa M. Jacob; the first *Report* of the Joseph Rowntree Memorial Trust, 1960; three pamphlets: "Meditations for the Concerned," by Ray Hartsough; "The Basis of the Quaker Heritage," by Bliss Forbush, and "The World Council and the Creedless Church," by Howard W. Brinton.

From C. Wilfred Conard, Westtown, a small volume of manuscript minutes of the "Octagon," a social organization of young Friends in Philadelphia at the turn of the century, and a copy of a historical pageant on George Fox and William Edmundson, given in North Carolina in 1929.

From Samuel Cooper, Moorestown, New Jersey, a number of Quaker pamphlets, small books, and odd copies of Quaker periodicals.

From Mrs. Henry S. Drinker, Merion, a copy of her book, *Hannah Penn and the Proprietorship of Pennsylvania*, 1958, and of her pamphlet, "Pennsylvania's Honoured Mistress," 1959.

From William Bacon Evans, Philadelphia, a letter dated Salem, [Ohio], 9 month, 17th, 1854. The writer is unknown, but the letter tells of the Separation in Ohio between the Conservatives and the Gurneyites. William Bacon Evans' father was present at this meeting.

From Alice Ford, New York City (through Mary Hoxie Jones), a brochure and a clipping from the *New York Times*, August 28, 1960, on Edward Hicks (1780-1849), his "The Peaceable Kingdom," and the special exhibit held in Williamsburg, Virginia, during the month of October 1960. The introduction and chronology of the brochure was written by Alice Ford, author of *Edward Hicks, Painter of the Peaceable Kingdom*, Philadelphia, 1952.

From Albert Vann Fowler, '27, Rosemont, a transcript of "An Address to the young Friends of Scipio Monthly Meeting," by George Truman, 7 month 11, 1830.

From Edith Albertson Greene, Buffalo, New York, 18th and 19th century letters, pamphlets and papers, an epistle to the General Meeting of Men and Women Friends, Falsington, Pennsylvania, 1862; a silhouette of Joseph Hoag; two military distrains (1830 and 1833).

From Richard D. Kubik, Haverford, *A Quaker Pioneer*, by Mildred E. Danforth (1st edition, New York, 1961). The book is about Laura Haviland, Superintendent of the Underground Railroad; and *A Quaker Boy Growing Up*, by Charles Allen Rowe.

From Professor J. Floyd Moore of Guilford College, a microfilm of his Ph.D. dissertation at Boston University, "The Ethical Thought of Rufus Matthew Jones."

From George L. Morris, Villanova, a small leaflet, "The Angel of Patience," by John Greenleaf Whittier, contained in Anthony Trollope, *North America* which had in it the autograph (1862) of Jacob P. Jones, one of Haverford's benefactors.

From Mrs. T. Beach Platt, Weston, Massachusetts, two photographs (association items relating to George Fox), one the

summer house at the Grange, in which a part of George Fox's *Journal* was written, the other the George Fox Monument, Drayton-in-the-Clay, England; also two Rufus Jones titles, *The Trail of Life in the Middle Years* (1927), and *New Studies in Mystical Religion* (1934), with the inscription and signature of George A. Barton.

From the Schwenkfelder Library, Pennsburg, Volumes XVI and XVII of the *Corpus Schwenckfeldianorum*.

From Steven Sieverts, '56, Flemington, New Jersey, a pamphlet by Frederick Keppel on Joseph Pennell, reprinted from *The Outlook*, September 23, 1905.

From Susanna Smedley, Wawa, a large collection of Kite and Sharpless papers; two printed items, *James Kite, The Ancient Banner*, and *Kite's Town and Country Almanac*, 1818. Included in the collection are diaries, accounts of trips, testimonies, letters, and five pieces of colonial currency.

From Avery Stubbs, secretary of the Western Hennepin [Minnesota] Pioneers Association, a copy of the Summer 1960 issue of *Hennepin County History* containing his article, "The Quaker Settlers from Ohio and Indiana."

From David E. Swift, Middletown, Connecticut, an offprint of his article in *Church History* on Charles Simeon and Joseph John Gurney.

From Kathleen Tillotson, Bedford College, University of London, a letter written to John Greenleaf Whittier by L. Edwin Dudley, dated 50 Bromfield Street, Boston, Massachusetts, April 16, 1892.

From W. Brinton Whittall, '50, Haverford, marriage certificates, miscellaneous certificates of membership, diplomas, some copies of wills, a Tatum and Wistar Bible, two manuscripts, commonplace books or journals, one of which seems to have belonged to Sarah Wistar in 1824. Among the material is a clipped signature of William Penn on parchment.

From Frederick R. Wulsin, Tucson, Arizona, a large collection of letters and business papers, indentures, agreements, wills and clippings, having to do with the Allinson family of New Jersey and Providence, Rhode Island, and concerning Henry C. Emery and his wife, Suzanne Allinson Emery.

For the Charles Roberts Autograph Collection:

From William Warder Bacon, Jr., '23, an autograph of Colonel John S. Mosby, Confederate Ranger, dated February 26, 1909; also the following autograph letters: Edward Martin, former United States Senator from Pennsylvania; Hugh D. Scott, Jr., as United States Congressman from Pennsylvania; James H. Duff, former United States Senator from Pennsylvania; and John S. Fine, former Governor of Pennsylvania.

From President Hugh Borton, a collection of autograph letters from well known people, namely: Wilhelm Grewe, Ambassador from Germany to the United States; Jacob Bronowski, author, scientist, and specialist on William Blake; Alan Bullock, Master, St. Catherine's College, Oxford; Roger W. Jones, Chairman of the United States Civil Service Commission; Alfred A. Knopf, publisher; Eugene Ormandy, Conductor of The Philadelphia Orchestra; Henry D. Cowell, Peabody Institute; Henry Taube, Professor and Head of the Department of Chemistry, University of Chicago; E. B. White, American writer; Henry Steele Commager, Professor of History and American Studies, Amherst College; Tennessee Williams, dramatist; and Erwin D. Canham, editor of *The Christian Science Monitor*.

From Mary Hoxie Jones, three letters, two typescript L. S., written by Mary Hoxie Jones, to E. B. White of *The New Yorker*, February 22, 1960; a letter from Mrs. E. B. White to Mary Hoxie Jones as well as one from E. B. White dated November 21, 1960; also E. B. White's article from the February 20th, 1960 issue of *The New Yorker*, entitled "Letter from the East," about the slow death of the Maine railroads from 1905 to 1960.

For the Haverfordiana Collection:

From Professor Howard Comfort, '24, a number of pictures of the Banjo Club, the 1870 soccer team, and pictures of classmates of President W. W. Comfort, '94; letters to Mrs. W. W. Comfort from George Wharton Pepper; letters to Howard Comfort from Christopher Morley, '10, Sinclair Lewis, and Booth Tarkington; also two pictures, and a copy of a poem, dated July 20, 1937, autographed by Christopher Morley; a memorandum list of rare Quaker volumes ordered from booksellers by Howard Comfort, '70.

From Dr. and Mrs. Frederic C. Sharpless, '00, Haverford, several diplomas belonging to Isaac Sharpless, former President of Haverford College, and one belonging to Frederic Cope Sharpless given by The Haverford Grammar School.

Purchases of Rare or Unusual Items:

A copy of William Penn's *Letter to his Wife and Children*, London. Printed for the Tract Association of the Society of Friends, London, 1847; and John Wilkinson *A Letter on Resigning his Membership in the Society of Friends*, London, [1836].

A book of short stories, *Babouscka*, 1899, containing the story, "The Quaker Wedding."

A letter written by Thomas Babington Macaulay, English historian, dated December 23, 1850, defending his treatment of William Penn and at the same time defending Penn.

THOMAS E. DRAKE

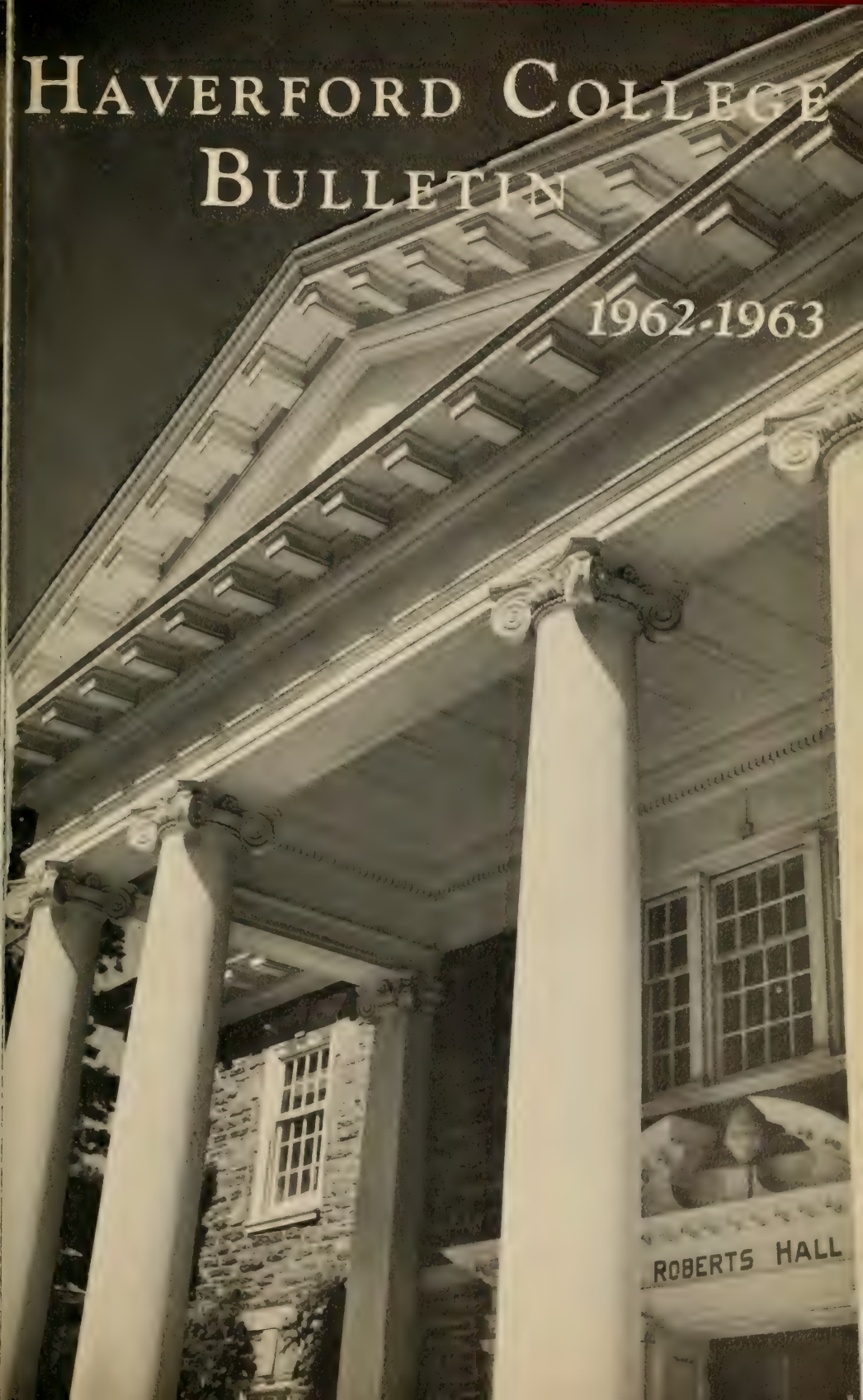
STATISTICS FOR THE REPORT OF THE CURATOR OF THE QUAKER COLLECTION

1960-1961

Books and pamphlets received by gift or purchase	230
(May 1, 1960 — April 30, 1961)	
Manuscripts received by gift or purchase	765
Research workers who visited the Treasure Room	15
Research inquiries answered by correspondence	75
Students and visitors	1415
Exhibits prepared	11
Professors using rare books and manuscripts in class	20
Students using rare books in the Treasure Room	25
Meetings and classes held in the Treasure Room	12

TWENTY-NINE]





HAVERFORD COLLEGE BULLETIN

1962-1963

ROBERTS HALL

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HAVERFORD COLLEGE BULLETIN



1962—1963

HAVERFORD, PENNSYLVANIA

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1962																
Sept.	S	M	T	W	T	F	S	Nov.	S	M	T	W	T	F	S	
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	2	3	4	5	6	7	8		4	5	6	7	8	9	10	
	9	10	11	12	13	14	15		11	12	13	14	15	16	17	
	16	17	18	19	20	21	22		18	19	20	21	22	23	24	
	23	24	25	26	27	28	29		25	26	27	28	29	30		
30																
Oct.		1	2	3	4	5	6	Dec.							1	
	7	8	9	10	11	12	13		2	3	4	5	6	7	8	
	14	15	16	17	18	19	20		9	10	11	12	13	14	15	
	21	22	23	24	25	26	27		16	17	18	19	20	21	22	
	28	29	30	31					23	24	25	26	27	28	29	
									30	31						

1963															
Jan.	S	M	T	W	T	F	S	Apr.	S	M	T	W	T	F	S
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	6	7	8	9	10	11	12		7	8	9	10	11	12	13
	13	14	15	16	17	18	19		14	15	16	17	18	19	20
	20	21	22	23	24	25	26		21	22	23	24	25	26	27
	27	28	29	30	31				28	29	30				
Feb.						1	2	May				1	2	3	4
	3	4	5	6	7	8	9		5	6	7	8	9	10	11
	10	11	12	13	14	15	16		12	13	14	15	16	17	18
	17	18	19	20	21	22	23		19	20	21	22	23	24	25
	24	25	26	27	28				26	27	28	29	30	31	
Mar.						1	2	June							1
	3	4	5	6	7	8	9		2	3	4	5	6	7	8
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	17	18	19	20	21	22	23		16	17	18	19	20	21	22
	24	25	26	27	28	29	30		23	24	25	26	27	28	29
	31								30						

College days in heavy-face type.

1962-1963

****** Laboratory notebooks must be turned in not later than the scheduled time of the examination in the course. Late notebooks will receive no credit unless arrangements have been made *in advance* with the instructor in the course and the Dean. In courses which have no scheduled examination, notebooks must be turned in by 4 P.M. on Tuesday of the final week of the examination period.

Standing Committees of the Board of Managers

*The Chairman of the Board is an ex-officio
member of all committees*

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JOHN F. GUMMERE	DANIEL D. TEST, JR.
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JONATHAN E. RHOADS	

Consultant on Trees and Shrubs

JOHN A. SILVER

Counsel

MACCOY, EVANS & LEWIS
2010 Two Penn Center Plaza, Philadelphia 2, Pa.

Faculty

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- ARCHIBALD MACINTOSH*Vice President and Director of Admissions*
B.A., Haverford College; A.M., Columbia University; Ph.D., University of Pennsylvania; LL.D., Haverford College.
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A.B., A.M. and Ph.D., Harvard University.
- LEON HAWLEY RITTENHOUSE*Professor of Engineering, Emeritus*
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B.A. and M.A., Oxford University.
- THOMAS EDWARD DRAKE*Professor of American History, Emeritus*
A.B., Stanford University; A.M., University of Michigan; Ph.D., Yale University.
- (The active members of the Faculty are arranged in the order of their appointment to their present rank. Two or more appointed in the same year are listed in alphabetical order.)*
- DOUGLAS VAN STEERE*T. Wistar Brown Professor of Philosophy*
S.B., Michigan State College; B.A. and M.A., Oxford University; A.M. and Ph.D., Harvard University; D.D., Lawrence College; L.H.D., Oberlin College.
- CLETUS ODA OAKLEY*Professor of Mathematics*
S.B., University of Texas; S.M., Brown University; Ph.D., University of Illinois.
- RALPH MILLARD SARGENT*F. B. Gummere Professor of English*
A.B., Carleton College; Ph.D., Yale University.
- HOWARD MORRIS TEAF, JR.*Professor of Economics*
B.S. in Economics, M.A. and Ph.D., University of Pennsylvania.
- * IRA DE AUGUSTINE REID*Professor of Sociology*
A.B. and LL.D., Morehouse College; A.M., University of Pittsburgh; Ph.D., Columbia University.
- HARRY WILLIAM PFUND*Professor of German*
B.A., Haverford College; A.M. and Ph.D., Harvard University.
- * HERMAN MILES SOMERS*Professor of Political Science*
S.B. and Ph.M., University of Wisconsin; A.M. and Ph.D., Harvard University.
- ROY EARL RANDALL*Professor of Physical Education*
Ph.B., Brown University. *and Director of Intercollegiate Athletics*

* Absent on leave, 1962-63.

- * LOUIS CRAIG GREEN *Professor of Astronomy*
A.B., A.M. and Ph.D., Princeton University.
- WILLIAM EDWARD CADBURY, JR. *Professor of Chemistry*
B.S. and M.A., Haverford College; Ph.D., University of Pennsylvania.
- † RUSSELL RAYMOND WILLIAMS, JR. *Professor of Chemistry*
B.A., University of Buffalo; Ph.D., Stanford University.
- HOWARD COMFORT *Professor of Classics*
B.A., Haverford College; A.M. and Ph.D., Princeton University.
- WILLIAM DOCHERTY, JR. *Professor of Physical Education*
S.B., Temple University. *and Director of Physical Education*
- CLAYTON WILLIAM HOLMES *Professor of Engineering*
B.S. in M.E. and M.E., University of New Hampshire; M.A., Haverford College.
- JOHN ASHBY LESTER, JR. *Professor of English*
B.S., Haverford College; A.M. and Ph.D., Harvard University.
- * HOLLAND HUNTER *Professor of Economics*
B.S., Haverford College; A.M. and Ph.D., Harvard University.
- WALLACE TREVETHIC MACCAFFREY *Walter D. and Edith M. L. Scull*
Professor of English Constitutional History
A.B., Reed College; A.M. and Ph.D., Harvard University.
- CRAIG RINGWALT THOMPSON *Professor of English and History*
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- MANUEL JOSE ASENSIO *Professor of Romance Languages*
B.A., University of Granada; M.A. and Ph.D., University of Pennsylvania.
- MARCEL MARC GUTWIRTH *Professor of Romance Languages*
A.B., Columbia College; A.M. and Ph.D., Columbia University.
- * FRANCIS HOWARD PARKER *Professor of Philosophy*
A.B., Evansville College; A.M., Indiana University; Ph.D., Harvard University.
- WILLIAM HEARTT REESE *Professor of Music and Director*
of Glee Club and Orchestra on joint appointment with Bryn Mawr College
A.B., Amherst College; M.A., Columbia University; Ph.D., University of Berlin.
- PHILIP WILKES BELL *Professor of Economics*
A.B., Princeton University; A.M., University of California; Ph.D., Princeton University.
- EDWIN B. BRONNER *Professor of History*
A.B., Whittier College; M.A., Haverford College; Ph.D., University of Pennsylvania.
- ARIEL GIDEON LOEWY *Professor of Biology*
B.S. and M.S., McGill University; Ph.D., University of Pennsylvania.
- ** FAY AJZENBERG-SELOVE *Professor of Physics*
B.S.E., University of Michigan; M.S. and Ph.D., University of Wisconsin.
- THEODORE BRINTON HETZEL *Associate Professor of Engineering*
B.S., Haverford College; B.S. in M.E., University of Pennsylvania; M.S. and Ph.D., Pennsylvania State University.
- FRANCES de GRAAFF *Associate Professor of Russian*
Ph.D., University of Leyden. *on joint appointment with Bryn Mawr College*
- JOHN ASHMEAD, JR. *Associate Professor of English*
A.B., A.M. and Ph.D., Harvard University.
- FRANK JOSEPH QUINN *Associate Professor of English Literature*
B.A. and M.A., Oxford University.
- ROBERT IRVING WALTER *Associate Professor of Chemistry*
B.S., Swarthmore College; M.A., Johns Hopkins University; Ph.D., University of Chicago.

* Absent on leave 1962-63.

** Absent on leave, first semester.

† Deceased.

- DOUGLAS HAMILTON HEATH *Associate Professor of Psychology*
A.B., Amherst College; A.M. and Ph.D., Harvard University.
- BRADFORD COOK *Associate Professor of French*
B.A., Williams College; Ph.D., Yale University.
- ALFRED DIAMANT *Associate Professor of Political Science*
A.B., and M.A., Indiana University; Ph.D., Yale University.
- A. PAUL HARE *Associate Professor of Sociology*
B.A., Swarthmore College; M.A., University of Pennsylvania; Ph.D., University of Chicago.
- ROBERT HAWES BUTMAN *Director of Drama with rank of Associate Professor*
B.A. and M.A., University of North Carolina.
- *** JOHN RICHARD CARY *Associate Professor of German*
B.A., Haverford College; Ph.D., Johns Hopkins University.
- † WILLIAM COOPER DAVIDON *Associate Professor of Physics*
B.S., M.S. and Ph.D., University of Chicago.
- GEORGE ARMSTRONG HEISE *Associate Professor of Psychology*
B.A., Swarthmore College; M.A. and Ph.D., Harvard University.
- * COLIN FRANCIS MACKAY *Associate Professor of Chemistry*
B.S., University of Notre Dame; M.S. and Ph.D., University of Chicago.
- *** EDGAR SMITH ROSE *Associate Professor of English*
A.B., Franklin and Marshall College; A.M. and Ph.D., Princeton University.
- * MELVIN SANTER *Associate Professor of Biology*
B.S., St. John's University; M.S., University of Massachusetts; Ph.D., George Washington University.
- ** ALFRED WANNER SATTERTHWAIT *Associate Professor of English*
A.B., A.M. and Ph.D., Harvard University.
- JOHN POLK CHESICK *Associate Professor of Chemistry*
B.S., Purdue University; Ph.D., Harvard University.
- *** PAUL J. R. DESJARDINS *Associate Professor of Philosophy*
B.A., M.A. and Ph.D., Yale University.
- IRVING FINGER *Associate Professor of Biology*
B.A., Swarthmore College; Ph.D., University of Pennsylvania.
- ROBERT C. WILLIAMSON *Visiting Associate Professor of Sociology*
B.A. and M.A., University of California at Los Angeles; Ph.D., University of Southern California.
- ARTHUR P. DUDDEN *Visiting Associate Professor of History*
A.B., Wayne University; A.M. and Ph.D., University of Michigan.
- ELIZABETH GOULD ZENN *Visiting Associate Professor of Classics*
B.A., Allegheny College; M.A. and Ph.D., University of Pennsylvania.
- HARMON CRAIG DUNATHAN *Assistant Professor of Chemistry*
B.A., Ohio Wesleyan University; M.S. and Ph.D., Yale University.
- GEORGE ALEXANDER KENNEDY *Assistant Professor of Classics*
A.B., Princeton University; A.M. and Ph.D., Harvard University.
- JAMES O. BROOKS *Assistant Professor of Mathematics*
B.A., Oberlin College; M.A., University of Michigan.
- JOHN HERBERT DAVISON *Assistant Professor of Music*
B.A., Haverford College; A.M., Harvard University; Ph.D., University of Rochester.
- ERNEST JOSEPH PRUDENTE *Assistant Professor of Physical Education*
B.S. in Ed., University of Pennsylvania.

* Absent on leave, 1962-63.

** Absent on leave, part time, 1962-63.

*** Absent on leave, second semester.

† Resigned, effective February 1, 1963.

- * LOUIS SOLOMON *Assistant Professor of Mathematics*
A.B. and Ph.D., Harvard University.
- JOHN PHILIP SPIELMAN, JR. *Assistant Professor of History*
B.A., Montana State University; M.A. and Ph.D., University of Wisconsin.
- * HARVEY GLICKMAN *Assistant Professor of Political Science*
A.B., Princeton University; A.M. and Ph.D., Harvard University.
- EUGENE SMOLENSKY *Assistant Professor of Economics*
A.B., Brooklyn College; M.A., American University, Ph.D., University of Pennsylvania.
- GUY MATTISON DAVENPORT, JR. *Assistant Professor of English*
A.B., Duke University; B.Litt., Oxford University; Ph.D., Harvard University.
- DALE HARPER HUSEMOLLER *Assistant Professor of Mathematics*
B.A., University of Minnesota; A.M. and Ph.D., Harvard University.
- SYDNEY IRWIN PERLOE *Assistant Professor of Psychology*
B.A., New York University; Ph.D., University of Michigan.
- ENGLISH SHOWALTER, JR. *Assistant Professor of French*
B.A. and M.A., Yale University.
- GERHARD ERNST SPIEGLER *Assistant Professor of Religion*
D.B., M.A. and Ph.D., University of Chicago.
- CHARLES HOWARD HOLBROW *Assistant Professor of Physics*
B.A. and M.S., University of Wisconsin; M.A. Columbia University.
- LOUIS ARYEH KOSMAN *Assistant Professor of Philosophy*
B.A. and M.A., University of California.
- MARGARET JEAN MATHIES *Assistant Professor of Biology*
B.A., Colorado College.
- OTTOMAR RUDOLF *Assistant Professor of German*
B.A., Manhattan College.
- GEORGE L. HAGEN *Visiting Assistant Professor of Biology*
B.S. and B.A., Moorhead State College; M.A., Miami University; Ph.D., Rutgers University.
- LAURENCE B. HOLLAND *Visiting Assistant Professor of English*
B.A., Princeton University; M.A., Harvard University.
- JOHN SPANIER *Visiting Assistant Professor of Political Science*
A.B., Harvard University; Ph.D., Yale University.
- THOMAS ALONZO BENHAM *Lecturer in Physics*
B.S. and M.S., Haverford College.
- CLARENCE EVAN PICKETT *Lecturer in Christian Ethics*
A.B., Penn College; B.D., Hartford Theological Seminary; LL.D., Haverford College; LL.D., Earlham College.
- HENRY JOEL CADBURY *Lecturer in Quakerism*
B.A. and Litt.D., Haverford College; A.M. and Ph.D., Harvard University; D.D., University of Glasgow; LL.D., Whittier College; LL.D., Swarthmore College; L.H.D., Howard University.
- JOACHIM MAASS *Lecturer in German Literature*
Deutsche Akademie für Sprache und Dichtung, Darmstadt; Freie Akademie der Künste, Hamburg.
- ** CHARLOTTE ANDERSON *Lecturer in German*
B.A. and M.A., University of California at Los Angeles; Ph.D., Yale University.
- MADelyn RUTH GUTWIRTH *Lecturer in French*
B.A., Brooklyn College; M.A. and Ph.D., Bryn Mawr College.
- VERNON LELAND INGRAHAM *Instructor in English*
B.A., University of New Hampshire; M.A. Amherst College.
- FRANK HOOD YOUNG *Instructor in Mathematics*
B.A., Haverford College.

* Absent on leave, 1962-63.

** Second semester, 1962-63.

Special Appointments

FORREST DUANE COMFORT	<i>Counselor</i>
A.B., Penn. College; M.A., Haverford College; Ed.M., Harvard University.	
NORMAN BARGE BRAMALL	<i>Assistant in Physical Education</i>
RAYMOND TAYLOR BRAMALL	<i>Assistant in Physical Education</i>
B.S., M.S. and Ed.D., University of Pennsylvania.	
NORMAN MONTGOMERY WILSON	<i>Assistant in Engineering</i>
FRITZ JANSCHKA	<i>Artist in Residence, Bryn Mawr College</i>
Akademie der Bildenden Künste, Vienna.	
ELIZABETH UFFORD GREEN	<i>Research Associate in Biology</i>
A.B., M.A. and Ph.D., Bryn Mawr College	
ANNE RAMSAY SOMERS	<i>Research Associate in Political Science</i>
B.A., Vassar College.	
ELEANOR MAASS	<i>Assistant in Chemistry</i>
B.S. and M.S., University of Illinois; Ph.D., University of Wisconsin.	

Administration

HUGH BORTON	<i>President</i>
B.S., Haverford College; A.M., Columbia University; Ph.D., University of Leyden; LL.D., Temple University; LL.D., University of Pennsylvania.	
ARCHIBALD MACINTOSH	<i>Vice President and Director of Admissions</i>
B.A., Haverford College; A.M., Columbia University; Ph.D., University of Pennsylvania; LL.D., Haverford College.	
WALTER C. BAKER	<i>Vice President for Development</i>
B.A., Haverford College.	
WILLIAM EDWARD CADBURY, JR.	<i>Dean</i>
B.S. and M.A., Haverford College; Ph.D., University of Pennsylvania.	
ALDO CASELLI	<i>Comptroller and Business Manager</i>
D.S.E. and C., University of Naples.	
CRAIG RINGWALT THOMPSON	<i>Librarian</i>
A.B., Dickinson College; A.M. and Ph.D., Princeton University.	
EDWIN B. BRONNER	<i>Curator of the Quaker Collection</i>
A.B., Whittier College; M.A., Haverford College; Ph.D., University of Pennsylvania.	
LOUIS CRAIG GREEN	<i>Director of the Strawbridge Memorial Observatory</i>
A.B., A.M., and Ph.D., Princeton University.	
MRS. MIRIAM R. NUGENT	<i>Director of Food and Housing</i>
B.S., New York University.	
WILLIAM EDWARD SHEPPARD, II.	<i>Director of Alumni Affairs</i>
B.S., Haverford College.	
CHARLES PERRY	<i>Associate Director for Development</i>
B.A., Haverford College; M.S.S., Bryn Mawr College.	
WILLIAM WEBSTER AMBLER	<i>Associate Director of Admissions</i>
B.S., Haverford College.	
MRS. RUTH H. REESE	<i>Assistant Librarian</i>
B.A., Acadia University; B.S. (L.S.), Simmons College.	
MRS. ESTHER R. RALPH	<i>Assistant Librarian</i>
B.S., West Chester State College; B.S. (L.S.), Drexel Institute of Technology.	
MRS. VIRGINIA H. KLINE	<i>Assistant Registrar</i>
GERTRUDE MANN WONSON	<i>Secretary to the Director of Admissions</i>
B.S., Simmons College.	
MRS. KATHARINE M. CARTER	<i>Secretary to the President</i>
A.B., Wilson College.	
MRS. FLORENCE N. ANDREWS	<i>Secretary to the Dean</i>
Certificate, Philadelphia Normal School.	

Medical Staff

WILLIAM WOLTER LANDER *Physician*
B.S., Ursinus College; M.D., University of Pennsylvania.
PETER G. BENNETT *Psychiatrist for the College*
M.D., University of Pennsylvania.
BERTHA KRATZ *Resident Nurse*
R.N., Stetson Hospital.

Visiting Faculty on The Philips Fund—1961-62

- BRIAN ABEL-SMITH
Reader in Social Administration, University of London.
- KENNETH J. ARROW
Professor of Economics and Mathematics, Stanford University.
- A. S. BESICOVITCH
Professor Emeritus, Cambridge University.
- SIDNEY BRENNER
Cambridge University.
- DONALD CAMPBELL
Professor of Psychology, Northwestern University.
- OWEN CHAMBERLAIN
Professor of Physics, University of California.
- SYDNEY CHAPMAN
Advisory Scientific Director of Geophysical Institute, University of Alaska.
- JOHN SHERMAN COOPER
United States Senator, Kentucky.
- WILLIAM VON EGGERS DOERING
Whitehead Professor of Chemistry, Yale University.
- WILLIAM FELLER
Professor of Mathematics, Princeton University.
- HEINZ FRAENKEL-CONRAT
Professor of Virology, University of California.
- MILTON FRIEDMAN
Professor of Economics, University of Chicago.
- HARRY HARLOW
Professor of Psychology, University of Wisconsin.
- LEONID HURWICZ
Professor of Economics, University of Minnesota.
- MICHAEL KASHA
Professor of Chemistry, Florida State University.
- WALTER J. KAUFMANN
Professor of Chemistry, Princeton University.
- LAWRENCE R. KLEIN
Professor of Economics, University of Pennsylvania.
- PIERRE LAROCHE
Member of the Conseil d'Etat, Paris, France.
- PAUL LAZARSFELD
Professor of Sociology, Columbia University.
- ROLLO MAY
Chairman, American Association of Existential Psychology.
- CHARLES OSGOOD
Professor of Psychology, Director of the Institute of Communications Research,
University of Illinois.
- WILLIAM C. H. PRENTICE
Professor of Psychology and Dean, Swarthmore College.
- HOWARD K. SCHACHMAN
Professor of Biochemistry and Virology, University of California.
- WILLIAM H. STEIN
Rockefeller Institute.
- JAN TINBERGEN
Professor of Economics, Rotterdam University.
- JOHN A. WHEELER
Professor of Physics, Princeton University.
- DENYS H. WILKINSON
Professor of Nuclear Physics, Oxford University.

Academic Council

The Academic Council consists of the President as Chairman, three elected divisional representatives of the Faculty, one to be elected yearly, the two Faculty representatives to the Board, Vice President MacIntosh, and the Dean, as Secretary of the Council. The Academic Council: 1) considers matters of college policy referred to it by the President and by members of the Council, 2) appoints the standing faculty committees, and 3) makes recommendations to the President on Faculty appointments, reappointments, promotions, and tenure in accordance with accepted procedures. The elected members of the Academic Council for the academic year beginning September 1, 1962 are Mr. Teaf (Social Sciences), Mr. Loewy (Natural Sciences), and Mr. Steere (Humanities).

Standing Committees of the Faculty

Academic Standing: MR. QUINN, *Chairman*

MESSRS. BROOKS, DOCHERTY, HEISE

Admissions: MR. WALTER, *Chairman*

MESSRS. HARE, THOMPSON

Arts and Service: MR. HETZEL, *Chairman*

MR. DAVISON

Curriculum and College Program: MR. LESTER, *Chairman*

MESSRS. LOEWY, PERLOE, SPIEGLER, MRS. SELOVE

Faculty Compensation and Medical Plans: MR. GUTWIRTH, *Chairman*

MESSRS. CADBURY, DESJARDINS, OAKLEY, TEAF

Faculty Research and Study: MR. H. COMFORT, *Chairman*

MESSRS. COOK, OAKLEY, DIAMANT

Honors, Fellowships and Prizes: MR. ASHMEAD, *Chairman*

MESSRS. DIAMANT, FINGER, SHOWALTER

Library: MR. SPIELMAN, *Chairman*

MESSRS. SMOLENSKY, HUSEMOLLER, ASENSIO, plus THOMPSON, *ex officio*

Philips Program: MR. PFUND, *Chairman*

MESSRS. BENHAM, MACCAFFREY, CARY, plus THOMPSON and SPIELMAN, *ex officio*

The President and Vice President MacIntosh are *ex officio* members of all committees. The Vice President for Development will attend such committee meetings as he considers necessary for the proper functioning of his office.

THE COLLEGE PROGRAM

Aims and Objectives

AS A QUAKER institution, Haverford College stresses three interrelated elements in its educational philosophy. These are a high standard of academic performance within a broadly-based, liberal arts curriculum, the individual nature of this education, and the importance of personal ideals and moral values. Thus, while the College places a high value on scholarship and intellectual expertness, it emphasizes simultaneously the development of sound ethical judgments based on a clear perception of individual and social aims.

A selective admissions policy brings to Haverford a diverse group of young men of high scholastic ability. The personality and character of candidates are important considerations in their selection. In his academic work, each student is encouraged and expected to perform at a level consistent with his abilities. The more capable the student, the more is expected of him. A Haverford student will soon discover the high value which the College attaches to intellectual integrity, a search for truth wherever it leads, independence of judgment, an imaginative grasp of the interrelationship of the branches of knowledge, and a capacity to carry out independent work. The requirements for graduation are designed to develop the ability to learn, to understand, and to reach sound conclusions, on the basis of study in each of the broad fields of human knowledge as well as by concentration in a single field.

In an atmosphere which demands high academic achievement of its students and which values and cherishes freedom of thought, Haverford College can be justly proud of the quality and ability of its faculty. Individually and collectively, their teaching skill, their enthusiasm for scholarly research, and their devotion to learning provide a continuous challenge and inspiration to their students.

The College believes that the desirable qualities cultivated in the classroom and laboratory can be supplemented and strengthened by a sound program of non-academic courses, athletics, and extracurricular activities. The Arts and Service non-credit courses are designed to encourage interest in constructive community service and to develop appreciation of beauty and certain creative skills. Athletic activities, including intramural and intercollegiate contests, promote physical fitness and coordination and provide opportunity for all students to experience the benefits of wholesome competition and team play. A variety of campus organizations allow each student to join with others in pursuing common interests. The important role of the honor system in student government emphasizes the value which the community places on individual responsibility.

Haverford College believes that while the mastery of facts, techniques, and certain skills is important, it must be coupled with the desire and moral capacity to use them for worthwhile ends. It will continue to lay stress on the formation of moral values and personal ideals, not insisting on any set beliefs, but cherishing freedom of religious beliefs and of conscience. Such growth is fostered by the weekly Collections, or assemblies, where leaders from various walks of life share with the undergraduates their diverse experiences and points of view. In addition, outstanding scholars frequently visit the campus for lectures or special classes, and have extensive personal contacts with students. In the mid-week Fifth-Day Meeting, a traditional Quaker meeting for worship, there is opportunity for the Haverford College student to learn from the meditative silence or from a spoken message how to delineate and cultivate the highest moral principles and to see himself in his proper relation to his fellows and to life as a whole.

History

HAVERFORD COLLEGE was founded in 1833 as the first college established by members of the Society of Friends in the United States. It was organized as an institution which would provide an "enlarged and liberal system of instruction" to meet the intellectual needs of "Friends on this continent," offering a course of instruction in science, mathematics, and classical languages "as extensive as given in any literary institution in this country." In those days it was modestly called Haverford School, but the intent was clear to create a center that would give to Friends the kind of education which other young Americans were receiving in the best colleges.

The choice of the site for the College exercised its founders for three years; it was settled by the purchase of 198 acres of rolling farmland in the center of the Welsh Tract, a large area originally set apart by William Penn for Quaker immigrants from Wales. Today the campus (increased to 216 acres), although in the midst of the Philadelphia suburbs, is still a beautiful area of fields and woodlands.

In its first forty years, the College gained in maturity while establishing policies and practices to make effective the ideals of its founders. In 1847 it opened its doors to young men who were not members of the Society of Friends, and in 1856 it became a degree-granting institution, with a tradition of high scholarship which has continued unshaken.

President Isaac Sharpless, 1887-1917, led Haverford College into the forefront of American collegiate institutions. Under his leadership, Haverford's

tradition of outstanding teaching was continued and strengthened. During the administration of William Wistar Comfort from 1917-1940 the student body increased from two hundred to over three hundred, and the College continued its emphasis on intellectual achievement combined with concern for the physical and moral development of its undergraduates. Felix Morley, a Rhodes Scholar of the Class of 1915, was President during the difficult years of World War II. He was succeeded by Gilbert F. White, one of the country's outstanding geographers, who served as President from 1946 to 1955 before returning to teaching and research. Hugh Borton, of the Class of 1926, was inaugurated as President October 19, 1957.

Resources

OVER THE YEARS Haverford's campus has been improved by the addition of dormitories and other buildings to supplement Founders Hall, which dates from the inception of the College, and Alumni Hall, built in 1856, which now forms a part of the Library. Except for about sixty day students, all the students at Haverford live in dormitories on the campus or in houses immediately adjacent to it. Similarly, a large portion of the Faculty live in houses and apartments owned by the College and situated on the campus. This is helpful in establishing an atmosphere of community life and in encouraging personal contacts between student and teacher.

The dormitories include Founders Hall, Barclay, built in the nineteenth century, Lloyd, completed in 1926, and Morris E. Leeds Hall, which was opened in the Fall of 1955. The Spanish, German and French Houses, established in recent years, give students interested in these studies an opportunity to live in close association with others specializing in these fields.

Chase Hall, containing classrooms, the Lyman Beecher Hall Chemistry Building, and Sharpless Hall, containing the physics and biology laboratories, date from President Sharpless's administration, as do the Haverford Union, used for many College activities, Roberts Hall, the administration building, and the Morris Infirmary. The Gymnasium, built in 1900, was supplemented in the Fall of 1957 by the Alumni Field House, which affords capacious facilities for indoor athletics and already has proved its value in Haverford's extensive program for physical education.

Construction of a \$2,000,000 building to house the Chemistry, Mathematics, and Physics Departments commenced in the spring of 1962. Completion of this building will provide opportunity for expansion of the library and of teaching facilities for the other departments. These and other improvements

will be financed by a three-year \$3.6 million development campaign, the first phase of a ten-year program which commenced in 1961 and has received impressive support from alumni and other friends of the College. In addition to this backing, Haverford has received substantial grants from the Rockefeller Foundation and the National Institutes of Health for extensive rearrangements in its Biology Department, and other friends have contributed liberally to the Henry S. Drinker Music Center, which was dedicated in January 1962.

The endowment and trust funds of Haverford College, which currently have a book value of over \$12,000,000, together with the support given to the College annually by its Alumni and other friends, has enabled it to maintain a relatively large faculty in proportion to the number of students. Enrollment, currently limited to approximately 450, is kept low so that teaching may continue on the basis of personal acquaintance in a unified community as it has throughout the history of the College.

Haverford Station on the Pennsylvania Railroad, between Ardmore and Bryn Mawr, is twenty minutes from downtown Philadelphia. Philadelphia's Orchestra, its museums and libraries, its scientific laboratories and industrial plants are thus easily accessible to Haverford students. The campus fronts on the famous Lancaster Pike (U. S. 30), a few miles from the Pennsylvania Turnpike. It is approximately two hours train journey from Haverford to New York or Baltimore and less than three hours to Washington.

Admission

THE POLICY of Haverford College is to admit to the Freshman class those applicants who, in the opinion of the Committee on Admissions, are best qualified to profit by the opportunities which the College offers and at the same time to contribute to undergraduate life. Due regard is given not only to scholarly attainment, as shown by school record and examination, but also to character, personality, and interest and ability in important extra-curricular activities.

Whenever practicable, the College will expect the candidate to have a personal interview with the Director of Admissions or another administrative officer. Every applicant should realize that, in view of the limited enrollment, he is entering a competition for admission to a carefully selected and comparatively small student organization. On the basis of all information available — school record, class standing, College Board reports, evidence touching on character and personality — the application will be accepted or rejected, and the decision of the Committee on Admissions is final. Preference will be given to those with superior records and credentials rather than to those with mere priority of application.

Students who are accepted will be admitted without conditions. Those who on entrance show marked proficiency in certain subjects will be permitted to take courses usually not open to Freshmen; in such cases, however, the number of courses required for a degree will not be diminished.

Each applicant must submit his school record and a certificate of character signed by his school principal. The school certificate must show satisfactory attainment in at least 15 units* of work. The preparatory course must include four years of English, at least a year and a half of Algebra and one year of Geometry (demonstrative or analytic or both), and three years of one foreign language. The remaining units will be drawn from laboratory science, social science, history, and additional mathematics and language.

A candidate may offer an elective in a subject not usually listed, provided he shows proficiency which indicates an amount of study and intellectual effort commensurate with that required in other subjects. The subject chosen must have the approval of the Admissions Committee.

Each applicant for admission must take the Scholastic Aptitude Test, three Achievement Tests, and the Writing Sample of the College Entrance Exami-

* A unit represents a year's study in any subject in a secondary school, constituting approximately a quarter of a full year's work.

nation Board. The English Achievement Test is required, but a candidate may choose the other two tests. If there is any doubt about the choice of the two tests, he should consult the Director of Admissions. Applications involving divergence from the normal procedure must be discussed in detail with the Director of Admissions.

Applications for admission should be submitted early in the candidate's senior year. The application must be accompanied by a check or money order for \$10.00 drawn to the order of Haverford College to cover the application fee, which is not refundable. Upon receipt of the application, the College will send a school record form to the candidate for completion by the school officials.

Candidates are encouraged to visit the College for an interview. The Office of Admissions is open from 9:00 a.m. until 4:30 p.m. on weekdays and from 9:00 a.m. until noon on Saturdays. The office is closed on Saturdays during the summer. Arrangements should be made in advance for an appointment.

Information Concerning College Entrance Board Tests

The College Entrance Examination Board will offer examinations on each of the following dates during the academic year 1962-63:

- | | |
|----------------------------|---|
| Saturday, December 1, 1962 | — Scholastic Aptitude Test, Achievement Tests, and Writing Sample |
| Saturday, January 12, 1963 | — Scholastic Aptitude Test, Achievement Tests, and Writing Sample |
| Saturday, March 2, 1963 | — Scholastic Aptitude Test, Achievement Tests, and Writing Sample |
| Saturday, May 18, 1963 | — Scholastic Aptitude Test, Achievement Tests, and Writing Sample |
| Wednesday, August 14, 1963 | — Scholastic Aptitude Test, Achievement Tests, and Writing Sample |

The *Bulletin of Information*, distributed without charge by the College Entrance Examination Board to all secondary schools that present candidates for the tests, contains rules regarding applications, fees, reports, and the conduct of the tests; lists of examination centers; and an application. This application may be used for any College Board administration involving the SAT, Achievement Tests, and the Writing Sample. Additional applications will be available at the schools for students needing more than one. Booklets describing the tests and giving sample questions, explanations, and answers, as well as score interpretation booklets for counselors and students, are also distributed in quantity to secondary schools without charge.

Candidates should make application by mail to the College Entrance Examination Board. Students who wish to take the examinations in any of the following States, territories, or foreign areas should address their inquiries and send their applications to College Entrance Examination Board, P. O. Box 27896, Los Angeles 27, California:

Alaska	Nevada	Province of Alberta
Arizona	New Mexico	Province of British Columbia
California	Oregon	Province of Manitoba
Colorado	Utah	Province of Saskatchewan
Hawaii	Washington	Republic of Mexico
Idaho	Wyoming	Australia
Montana	Northwest Territory	Pacific Islands including
	Yukon Territory	Japan and Formosa

Early Decision

Students whose first choice is Haverford may apply under a single application, early decision plan. Those applying on this basis must submit their complete credentials, including the required College Board Examinations, before November 1. Additional information may be obtained from the Director of Admissions.

Transfer Students

A few transfer students are accepted each year. Since each applicant for transfer is considered as a special case, no fixed requirements are specified. An undergraduate who is applying for transfer should provide the Admissions Office with a transcript of his secondary school record and a transcript of his college record. If he has taken College Entrance Board Tests, he should arrange to have these scores sent to Haverford. He should submit a letter of recommendation from a responsible official of the college last attended. If these credentials appear satisfactory, the applicant will be invited to the College for an interview.

Advanced Standing

Students in high school who have done advanced work in one or more courses may take the Advanced Placement Tests given by the College Entrance Examination Board each May to determine eligibility for advanced placement or credit in college courses.

Financial Arrangements

Rooms

ENTERING FRESHMEN are assigned the rooms available after the other classes have made their choice. New students will be notified of the rooms assigned to them by means of a list available in Roberts Hall. The choice of rooms by other students is governed by published rules.

A deposit of \$35 is required of all new students at the time they are notified of their admission. A similar deposit is required also of those students who have not been in attendance at the College during the immediately preceding semester. This amount will be deducted from the bill for the following year. If the student fails to present himself at the beginning of the semester for which he has been enrolled, the deposit will be forfeited.

Students are expected to treat College property with the same consideration as their own. A student is held financially responsible for any damage to his room, and any damage wilfully done will be sufficient reason for requesting withdrawal from the College.

Expenses

The tuition charge for all regular students is \$1475.00 for the academic year. Tuition for special students is \$200.00 per course, per semester. The Residence Fee is \$900.00 per year. The payment of a Unit Fee of \$135.00 per year makes it possible for the student to participate in any campus organization without an additional fee.

The Residence Fee covers board and room charges; under the latter are included heat, electric light, weekly service, and the use of necessary bedroom furniture, i.e., a bureau, table, chair, study lamp, and a bed, the linen for which is furnished and laundered by the College. Students will supply their own study furniture, blankets, and towels.

The College requires that bills rendered August 15 and January 15 for the following semester's tuition, board, room, unit fee, and deposits be paid in full before the beginning of the semester.

In order to avoid last minute congestion, it is suggested that bills be paid by mail in advance.

A non-refundable fee of \$10.00 is payable when application for admission is presented.

The Unit Fee includes the following: Student activities fee, laboratory fees, health fee, accident insurance (a maximum of \$1000.00 within one year of each accident), diploma, and psychological tests when required by the College.

When a special diet is required for medical reasons, and approved by the College Physician, a charge of \$1.50 weekly will be made, but this charge may be increased if the special foods required are unusually expensive.

The College requires Freshmen to pay a fee of \$20.00 toward the cost of the orientation week.

The College requires a \$100.00 deposit to cover the cost of books and any other incidental charges which may arise during the school year. Each incidentals account must have a balance, on June first, adequate to cover all final charges. At intervals during the year, a bill for the actual charges made will be sent to the student. If this bill, or any other indebtedness, is not paid by the end of the semester, credits will not be granted for the work performed. Any unspent balance is refunded at the end of the academic year.

No reduction or refund of the tuition charge will be made after the first two weeks of any semester. If a student withdraws before the completion of the first two weeks, there will be a complete refund of his tuition. In case of withdrawal or absence due to illness, full refund of the Residence Fee cannot be made, since overhead expenses continue. However, if a student withdraws more than four weeks before the end of a semester, or is absent because of illness for four weeks or more, a partial refund of the Residence Fee, in the amount of \$10 for each week of absence, will be made. The unit fee cannot be refunded for any reason.

College Responsibility

The College is not responsible for loss due to fire, theft, or any other cause. Students who wish to take out fire insurance may apply for information at the Office of the Comptroller.

Monthly Payments

Parents who prefer to pay tuition and other fees in monthly instalments may do so through the Bryn Mawr Trust Company. Details of this plan, including charges for financing, may be obtained from the Comptroller.

Student Loan Fund

A loan fund is available for deserving students, other than members of the Freshman Class and transfer students during their first year, who may require financial assistance during their College course.

For information apply at the Office of the Comptroller.

Student Aid

In addition to the Student Loan Fund and to scholarship help, the College offers students the opportunity to work at standard rates in the Library and as clerical assistants to faculty and administrative officers of the College. Appointments are made from a list of eligible students prepared by Vice-President MacIntosh.

Scholarships

SCHOLARSHIPS are awarded on a basis of merit and individual need. While no scholarship is given for more than one year, it is the practice to continue the scholarship if a student's scholastic performance has been satisfactory and his need remains constant.

No scholarship will be given to a student whose academic standing is unsatisfactory.

No scholarship will be given to a student whose previous college bill has not been paid in full.

Candidates for freshman scholarships must file a financial statement with the College Scholarship Service, Princeton, N. J., before January 15th. Copies of the form to be used may be obtained from the applicant's high school or from the College Scholarship Service.

Students enrolled at the College must submit all preliminary correspondence and applications for undergraduate scholarships for 1963-64, together with supporting letters from parents or guardians, to Vice President MacIntosh before April 15, 1963.

It is assumed that requests for scholarships will not be made by those whose expenses can be met by their parents or from other sources.

CORPORATION AWARDS.—Four Corporation Scholars will be chosen in each class. In the senior, junior and sophomore classes the selection will be made on the basis of the highest general averages for the preceding year. In the freshman class the selection will be made after the May College Board Examinations (see page 24). Each Corporation Scholar will be awarded \$50.00. No application for these awards is necessary.

The Endowed Scholarships

It is not necessary for applicants to mention specific scholarships in their applications except in those cases where they meet the special conditions stated for the award.

I. ISAAH V. WILLIAMSON SCHOLARSHIPS.—Three scholarships, usually awarded to members of the Senior and Junior classes.

II. RICHARD T. JONES SCHOLARSHIP.—One scholarship.

III. EDWARD YARNALL SCHOLARSHIP.—One scholarship.

IV. THOMAS P. COPE SCHOLARSHIP.—One scholarship.

V. SARAH MARSHALL SCHOLARSHIP.—One scholarship.

VI. MARY M. JOHNSON SCHOLARSHIP.—One scholarship.

VII. ISAAC THORNE JOHNSON SCHOLARSHIP.—One scholarship, available for a student of Wilmington College or a member of Wilmington (Ohio) Yearly Meeting of Friends.

VIII. CASPAR WISTAR MEMORIAL SCHOLARSHIP.—One scholarship, available preferably for sons of parents engaged in Christian service (including secretaries of Young Men's Christian Associations) or students desiring to prepare for similar service in America or other countries.

IX. LOUIS JAQUETTE PALMER MEMORIAL SCHOLARSHIP.—This scholarship is awarded on application, preferably to a member of the Freshman Class who, in the opinion of a committee representing the donors and the President of the College, shall give evidence of possessing the qualities of leadership and constructive interest in student and community welfare which his friends observed in Louis Jaquette Palmer of the Class of 1894.

X. J. KENNEDY MOORHOUSE MEMORIAL SCHOLARSHIP.—One scholarship, intended for the member of the Freshman Class who shall appear best fitted to uphold at Haverford the standard of character and conduct typified by the late J. Kennedy Moorhouse of the Class of 1900—"a man modest, loyal, courageous, reverent without sanctimony; a lover of hard play and honest work; a leader in clean and joyous living."

XI. PAUL W. NEWHALL MEMORIAL SCHOLARSHIP.—One scholarship.

XII. ROBERT MARTIN ZUCKERT MEMORIAL SCHOLARSHIPS.—Two or more scholarships, preference to be given to "a native of New York or Connecticut who now resides in one of those States."

XIII. SAMUEL E. HILLES MEMORIAL SCHOLARSHIP.—One scholarship.

XIV. CLASS OF 1913 SCHOLARSHIP.—One scholarship, preference to be given to descendants of members of the Class of 1913 who may apply and who meet the usual requirements of the College.

XV. ISAAC SHARPLESS SCHOLARSHIP FUND.—Founded in 1941. Scholarships open to graduates of secondary schools and undergraduates of Haverford College. Awards based upon fulfillment by applicant of requirements used in selection of Rhodes Scholars to the University of Oxford. Awards granted from list submitted to Selection Committee by the Director of Admissions, subject always to final approval by the President of the College; amount variable.

XVI. CLASS OF 1917 SCHOLARSHIP.—One scholarship, preference to be given to descendants of members of the class of 1917 who may apply and who meet the usual requirements of the College.

XVII. THE GEOFFREY SILVER MEMORIAL SCHOLARSHIP.—One scholarship, available to a public school graduate in this general area who may enter Haverford.

XVIII. DANIEL B. SMITH SCHOLARSHIP.—One scholarship, awarded "in the discretion of the Faculty, as an annual scholarship for some young man needing financial aid in his College course. Preference is to be given to a descendant of Benjamin R. Smith, if any such should apply."

XIX. SARAH TATUM HILLES MEMORIAL SCHOLARSHIP FUND.—Founded November 1, 1954, by bequest of \$75,534.58 from Joseph T. Hilles, Class of 1888, in memory of his mother, Sarah Tatum Hilles, "to provide for such number of annual scholarships of \$250 each as such income shall be sufficient to create"; to be awarded by the Managers to "needy and deserving students, and to be known as 'Sarah Tatum Hilles Memorial Scholarships.'"

XX. ELIHU GRANT MEMORIAL SCHOLARSHIP FUND.—Two or more scholarships, established February 2, 1944, by Mrs. Elihu Grant "to commemorate the service to Haverford College of Dr. Elihu Grant, from 1917 to 1938 a member of the College Faculty. The income from this fund is applied to scholarship assistance to students in Humanistic studies, primarily those specializing in the study of Biblical Literature and Oriental subjects." In special circumstances the income may be utilized to assist those working for a post-graduate degree at Haverford College.

XXI. JOSEPH L. MARKLEY MEMORIAL SCHOLARSHIP.—One scholarship, awarded at the discretion of the Faculty, "on the basis of character, scholarship and financial need."

XXII. JOSETH C. AND ANNE N. BIRDSALL SCHOLARSHIPS.—Scholarships, awarded at the discretion of the Faculty "to some student or students preparing for medicine, the selection to be based on character, scholarship and financial need."

XXIII. DANIEL E. DAVIS, JR., MEMORIAL SCHOLARSHIP.—One scholarship, awarded at the discretion of the Faculty, "on the basis of character, scholarship and financial need."

XXIV. CHRISTIAN FEBIGER MEMORIAL SCHOLARSHIP.—One scholarship, established June 13, 1946, by Mrs. Madeleine Seabury Febiger in memory of her husband, Christian Febiger, of the Class of 1900. The income of this

fund is applied in paying tuition and other college expenses of worthy, needy students.

XXV. THE W. W. COMFORT FUND.—This fund was established in 1947 by the Haverford Society of Maryland. Grants from this fund are made with the understanding that the recipient shall, at an unstated time after leaving college, repay to the fund the amount which he received while an undergraduate.

XXVI. JONATHAN M. STEERE SCHOLARSHIP FUND.—Established in December 1948 by Jonathan M. Steere, of the Class of 1890. The scholarship is intended primarily for a graduate of Moses Brown School, Providence, Rhode Island, who shall be a member of the Society of Friends.

XXVII. WILLIAM GRAHAM TYLER MEMORIAL SCHOLARSHIP.—Founded in 1949 in memory of William Graham Tyler, of the Class of 1858. Preference shall be given to students from Oskaloosa, Iowa, or from William Penn College, on the basis of character, scholarship and financial need.

XXVIII. MAX LEUCHTER MEMORIAL SCHOLARSHIP.—Established in December, 1949, in memory of Max Leuchter, father of Ben Z. Leuchter, of the Class of 1946. One scholarship, awarded at the discretion of the Faculty, "on the basis of character, scholarship and financial need."

XXIX. 1890 MEMORIAL SCHOLARSHIP FUND.—Established by a member of the Class of 1923 in memory of his father, of the Class of 1890, and in recognition of his father's friendship with the members of his class. The income from this fund is to be awarded as a scholarship by the College to a deserving student.

XXX. THE A. CLEMENT WILD SCHOLARSHIP.—Established May 14, 1951, by Mrs. Gertrude T. Wild in memory of her husband, A. Clement Wild, of the Class of 1899. The income from this fund is to be awarded as a scholarship by the College to a deserving student. Preference shall be given to an English exchange student or someone in a similar category.

XXXI. THE CHARLES MCCAUL FUND.—Established in 1951 by Mary N. Weatherly. One or more scholarships which shall be "awarded to students who show special interest in the field of religion and the social sciences."

XXXII. THE CAROLINE CHASE SCHOLARSHIP FUND.—Established December 10, 1951, by Caroline Chase, daughter of Thomas Chase, one-time president of the College. This fund is an expression of Thomas Chase's "enthusiastic appreciation for its high standards of scholarship in Greek, Latin and English literature."

XXXIII. THE JONATHAN AND RACHEL COPE EVANS FUND.—Founded in 1952 by the children and grandchildren of Jonathan and Rachel Cope Evans. One half of the income of this fund is to be used for scholarships.

XXXIV. THE C. PRESCOTT KNIGHT, JR., SCHOLARSHIP.—Established by the Haverford Society of New England for a New England boy from a New England school. In the award of this scholarship a committee, composed of alumni of the New England area, will consider character and personal qualities as well as the scholastic record and need of the applicant.

XXXV. THE ROY THURLBY GRIFFITH MEMORIAL FUND.—Established in June 1952 by Grace H. Griffith, in memory of Roy Thurlby Griffith, of the Class of 1919. The income from this fund is to be awarded as a scholarship by the College, "preference to be given to boys who have no father and who are in need of financial assistance."

XXXVI. THE MORRIS LEEDS SCHOLARSHIPS.—Established in 1953 by the Board of Managers of the College in memory of Morris E. Leeds, a member of the Class of 1888 and chairman of the Board from 1928 to 1945.

XXXVII. THE CLASS OF 1904 SCHOLARSHIP FUND.—Established June 4, 1954, in commemoration of the fiftieth anniversary of the Class of 1904. The income from this fund, which was contributed by the Class and the families of its deceased members, will provide one scholarship.

XXXVIII. THE WILLIAM MAUL MEASEY TRUST.—Established in 1952 by William Maul Measey, a friend of the College, who has been deeply interested in education and who has wished to help students of high quality in the pursuit of their education.

XXXIX. THE J. HORACE COOK FUND.—Established in 1955 by a bequest under the will of J. Horace Cook, of the Class of 1881, for a scholarship, "one to be awarded each year so that there will be a student in each class receiving his tuition from this fund."

XL. THE INAZO NITOBÉ SCHOLARSHIP FUND.—Established in November 1955 under the will of Anna H. Chace, "the income to be used and applied for the education at Haverford College of a Japanese student who shall be a resident of Japan at the time of his appointment to such scholarship and for his traveling expenses from and to Japan and his living expenses during the period he shall hold such scholarship."

XLI. THE GIFFORD K. WRIGHT SCHOLARSHIP FUND.—Established in December 1955 in memory of Gifford K. Wright, of the Class of 1893.

XLII. THE SUMMERFIELD FOUNDATION SCHOLARSHIP FUND.—Established in February 1956. One scholarship, awarded at the discretion of the Faculty, "on the basis of character, scholarship and financial need."

XLIII. THE SCOTT AWARD.—Established in 1955, for a period of five years, and renewed in 1960 for an additional five years, by the Scott Paper Company Foundation. "A two-year scholarship award for the Junior and Senior years, to be given to that student who is planning to embark upon a business career and who is judged by both students and faculty as an outstanding member of the Sophomore Class."

XLIV. JACOB P. JONES ENDOWMENT FUND.—This fund was established in 1897. The donor stated: "My hope is that under the blessing and favor of God there will come from this source a revenue which shall be productive of growth and vigor in the institution as well as help at this critical period of their lives to many deserving young men of slender patrimony."

XLV. THE W. LACOSTE NEILSON SCHOLARSHIP.—Established in 1957 by the family and friends of W. LaCoste Neilson, Class of 1901, in his memory. The income is to be used for the payment of one or more scholarships at the discretion of the College, preference if possible being given to students taking scientific or practical courses rather than those in the field of the arts.

XLVI. THE KATHLEEN H. AND MARTIN M. DECKER FOUNDATION SCHOLARSHIP.—Established in 1958, the Kathleen H. and Martin M. Decker Foundation Scholarship is awarded annually to young men preparing themselves in the fields of physics, mathematics, chemistry and biology. The Scholarship Committee, in making their selections, will have regard for candidates who rank high in scholarship, leadership and character. At least one scholarship will be given each year with a maximum grant of \$1,000. The actual amount of the stipend will be determined by the financial need of the candidate.

XLVII. THE RUFUS MATTHEW JONES SCHOLARSHIP FUND.—Established in 1959 by Clarence E. Tobias, Jr., as a testimonial to Rufus Jones "and in gratitude for the excellent educational facilities Haverford provided for me and my son." The principal and income of this Fund are to be used for scholarships or loans to students majoring in Philosophy. Preference is to be given to seniors. The recipient will be selected by the Chairman of the Philosophy Department in consultation, if he desires, with his departmental associates and in accord with the usual scholarship practice of the College. The donor welcomes additions to the Fund from any who might be interested.

XLVIII. THE GEORGE KERBAUGH SCHOLARSHIP.—This fund was established in 1960 in recognition and appreciation of the leadership and personal generosity of George Kerbaugh, '10, who headed the efforts of the Triangle Society to provide additional badly needed stands for Walton Field.

George Kerbaugh's many services to the College include his chairmanship of the Committee which raised the funds for the Library addition built in the 1930's. The Board of Managers then expressed to him "its heartfelt appreciation and its sense of great obligation for a notable achievement."

XLIX. THE F OF X SCHOLARSHIP.—Established by the bequest of Legh Wilbur Reid, who died April 3, 1961 and who was the esteemed Professor of Mathematics at the College for 34 years. His will provides that the scholarship is to be known as the F of x Scholarship.

The scholarship is to be awarded to a student in either the Sophomore, Junior or Senior Class who has successfully completed the freshman course in mathematics at Haverford College and who shall have shown a real interest in mathematics and who has given promise for the future of his work in that subject.

The General Scholarships

In addition to the endowed scholarships, a general scholarship fund is available. Awards from this fund will be made by the committee, the scholarships varying in size and number according to the need of the applicants.

Curriculum

General

HAVERFORD is a liberal arts college. Its curriculum is designed to develop in its students the capacity to learn and understand, and to make sound judgments based on knowledge and on thought. The requirements for the degree insure the exercise of these skills in each of the broad fields of human knowledge, and their subtler development in a single field of concentration.

Bachelor's Degree

To graduate from Haverford College a student must complete successfully four years of academic work and three years of Physical Education (part of which may be replaced by work in the Arts and Service Program). Credit for a year of academic work is given to a student who has passed five courses for each of two semesters with an average of at least 60 for the Freshman year, 65 for the Sophomore year, and 70 for the Junior and the Senior years. Among the courses taken, the student must include freshman English, the courses required for his Major department, and, during the first three years, those required under the limited electives program (see below). In each course which is required as a part of his Major program, a student must achieve a minimum grade of 65. He must also include course 100 in his Major department during the second semester of the Senior year, at the end of which he must take the Major examination in that department, and receive in it a grade of at least 70. The degree normally conferred upon all candidates meeting these requirements is that of Bachelor of Arts. Upon request by the candidate and approval by the department concerned, however, the Bachelor of Science degree will be granted to men majoring in Natural Science, Mathematics, or Engineering.

Course Intensification

Each student is required to enroll in five courses each term as described above, since the College believes that wide diversity of course experience is an important part of a Haverford education, but the College also recognizes that students may sometimes profit from the opportunity on occasion to work more intensively on a smaller number of subjects. Therefore, with the approval of his adviser, a student may, if he wishes, effect reduction in the number of different subjects he is studying at any time except in his freshman year by registering, with the instructor's permission, for double credit in one, and in unusual cases, more than one of his courses. In a double credit course the student undertakes an approved program of independent study in conjunction with a regular course or a project course and submits a paper or passes an examination based on his independent work. Such independent work is not suitable in all subjects and the instructor of the course must be the final

judge of whether or not it should be attempted. In unusual cases, a student may apply to the Academic Standing Committee for permission to pursue a program of less than five subjects without enrolling in a double credit course.

Limited Electives

To ensure breadth of distribution, every student is required to take a certain number of courses in each of four designated areas of study. This requirement must be satisfied before a student can be admitted to Senior standing. Exception may be made by agreement between the Major Supervisor and the Dean. The requirements are as follows:

1. **FOREIGN LANGUAGES:** Students whose native language is English are required to pass at least one full-year course in a foreign language above the elementary grade. For the purpose of this requirement all first year foreign language courses are considered as of elementary grade. Ordinarily this requirement shall be satisfied by the end of the sophomore year.

At the time a student is admitted to a department his major adviser, in consultation with the student and his language instructors, shall make a decision as to whether the student's projected upperclass work and special interests require him to pursue additional language study and if so what study is required.

2. **HUMANITIES:** Division of courses into (a) and (b) categories is designed to assure that each student will have experience in the two areas: philosophic and religious, and literary and aesthetic. While recognizing that each Humanities course may have some elements of both areas, the faculty has agreed that the desired objectives can be reached by requiring that each student shall pass two semester courses in each of the following categories (a) and (b):

(a) Humanities 21-22; all courses in Philosophy except 14 and 36; all courses in Religion.

(b) All courses in Classics numbered above 14; all courses in English numbered above 12, except English 37; all courses in French numbered above 22; all courses in German numbered above 14, except German 22; all courses in History of Art and in Music; Russian 201, 203 (at Bryn Mawr); all courses in Spanish numbered above 14.

3. **NATURAL SCIENCES AND MATHEMATICS:** The requirement may be met by passing four semester courses chosen from:

Astronomy, Biology, Chemistry, Mathematics, Physics,
Geology 101a, 101b* and Physical Science 36.

At least one of the four semester courses must be a laboratory course. Excluded from the category of laboratory courses are Biology 13, Physical Science 36, and all courses in the Department of Mathematics.

* Geology is offered at Bryn Mawr College. In order for a student to take courses at Bryn Mawr, he must meet the requirements as stated on page 44 of this catalog.

4. SOCIAL SCIENCES: The requirement may be met by passing four semester courses chosen from at least two of the following departments:

Economics, History, Political Science, and Sociology. (For purposes of this requirement, Psychology 11, 12, and 32 may be counted in place of courses in Sociology.)

N.B. Courses listed jointly under History and English, or History and Classics, may be used in meeting the Social Science requirement or the Humanities (b) requirement, but not both.

Courses taken in Summer School will not normally be accepted as satisfying limited electives requirements.

Free Electives

A number of courses sufficient to bring the total to forty semester courses shall be chosen by the student in consultation with his Faculty Adviser, with the understanding that the College reserves the right, through the Adviser and the Dean, to prevent unreasonable combinations of courses.

Non-Academic Electives

Three terms of Physical Education or of courses in the Arts and Service Program are required of each Freshman, Sophomore, and Junior, as described on pages 83 and 103-105. These courses must be taken in addition to the 40 semester courses of academic work required for a degree.

Major Concentration

A student may elect to major in any one of the following departments: Astronomy, Biology, Chemistry, Classical Archaeology (Bryn Mawr College), Classics, Economics, Engineering, English, French, Geology (Bryn Mawr College), German, History, History of Art (Bryn Mawr College), Italian (Bryn Mawr College), Mathematics, Music, Philosophy, Physics, Political Science, Psychology, Religion, Russian, Sociology, Spanish.

Definite requirements are stated under the name of each department on pages 49-102. During the fourth semester of his attendance each student should confer with the Major Supervisor of the department in which he wishes to major, and apply to him for written approval of a program of courses for the last four semesters. Such a program must provide for the completion, by the end of the Senior year, of approximately twelve semester courses, or the equivalent, at least six of which must be in the Major Department and the others in closely related fields. Should the student's application be rejected by all departments in which he is interested, he should consult the Dean. Failure to file with the Dean, before the date specified on the College Calendar, a copy of his Major Program signed by his Major Supervisor, will entail a fine of \$5. Any student who continues delinquent in this matter, unless he is excused by the Dean, will be debarred from the

final examinations in his fourth semester. Should the student's application be rejected by all the departments to which he applies, he will not be promoted.

A student who applies for permission to become a Major in any department may be rejected for *scholastic reasons only*. The College rule on this point is:

If, at the time specified for application, the average of the grades obtained by a student in the "preliminary courses"* of any department is 75 or above, the student will be accepted by that department.

If the average of the grades obtained in these courses is below 70, the student will be accepted in that department only under exceptional circumstances.

If the average of the grades obtained in these courses is 70 or above, but below 75, the decision will be at the discretion of the Major Supervisor.

A student who has been formally accepted as a Major by any department has the right to remain as a Major in that department as long as he is in College. Should he wish to change from one department to another after the beginning of his fifth semester, the change can be made only with the consent of the new Major Supervisor and the Dean.

Each Senior must take a special Major comprehensive examination (written, oral, or both) during the period scheduled for such examinations. The purpose of this examination is to promote the student's comprehension, integration and application of the knowledge acquired in the field of his major concentration, and to secure evidence of this achievement. The passing grade for this examination is 70. In case of failure, a candidate may, with the permission of his Major Supervisor, present himself for re-examination at a date (to be determined by the Major Supervisor) later than Commencement Day of the current year.

If the re-examination is taken one year later, during the regular period of Major examinations, there is no fee. But if the candidate applies for re-examination at an earlier date (involving the preparation of a special examination for one individual), and if the request is granted, the fee is \$25.

As special background for the comprehensive examination a senior shall engage in a period of study, technically called course 100, in his department of concentration during the semester preceding that examination. This period

* "Preliminary courses" are any courses the student may already have taken in the department to which he is applying. If the applicant has not already taken any courses in that department, the department may name courses in other departments which are to be regarded as "preliminary."

of study shall be counted as one of the five courses normally carried by the student during his final semester. Evaluation of the work in course 100 may be included in the grade earned by the student in his comprehensive examination.

In case of failure in the comprehensive examination a student does not necessarily repeat the term work of course 100, but follows the application procedure for re-examination as indicated above. A student may not take more than two re-examinations in the field of his major concentration.

Students taking Majors under the supervision of Bryn Mawr College will note that their course 100 may extend over more than one semester; if this is the case, credit for two courses at Haverford will be granted if the work in each semester of this course is satisfactory.

Examinations in courses in the Major subject taken in the last semester of the Senior year may be omitted at the discretion of the Major Supervisor.

Courses taken in Summer School will not satisfy Haverford course requirements for the Major unless prior written approval is granted by the Major Supervisor.

A student who has demonstrated unusual maturity and who has special interests and abilities may be permitted to arrange an *interdepartmental major*. The program of courses, the nature of the 100 course, and the nature of the comprehensive examination for an interdepartmental major are to be worked out in advance (that is, when the major is selected) by the student, with permission of the Dean, in consultation with and subject to the approval of the chairmen of the departments concerned, one of whom will be designated as Major Supervisor for that student.

In rare cases, and only for high ranking students, a *double major* may be arranged, in which the student takes the complete major in each of two departments. In order to take a double major, a student must receive permission from the Dean as well as from the chairman of each of the departments concerned.

Freshman Program

Each Freshman, on entering the College, is assigned to a Faculty member as Adviser. Normally, the student keeps the same Adviser until he chooses a Major near the end of the Sophomore year, when the Chairman of the Major Department becomes his Adviser. Assignment of Advisers for incoming students is made by the Dean, on the basis of the best evidence available to him. If, after being assigned an Adviser by the Dean, the student finds

another Faculty member whom he would prefer to have as Adviser, he is urged to inform the Dean of this preference, so that, if possible, the change can be made.

The Faculty Adviser is instructed to advise each of his freshmen advisees on a plan of study suited to his special needs; however, the faculty requires that English be taken throughout the year and strongly recommends that in all usual cases the remaining four courses be: one course in language, one course in the area of Social Science, one course in the area of Natural Science and Mathematics, and one additional course.

The courses open to Freshmen are numbered 11 to 20 in the section on Courses of Instruction. If he is qualified, a Freshman may be permitted by the department concerned and by the Dean to take more advanced courses.

A series of standard tests is administered to all entrants within the first few days of the first semester. These tests are helpful in guidance and counseling. One function of the tests is to determine which Freshmen should be recommended to take the voluntary course in Developmental Reading, which is offered each term, for no credit, to students who feel the need of establishing reading habits that will improve their comprehension and increase their speed in reading.

Each Freshman's capacity for oral expression is tested early in the academic year, and further training in speech is given to those who need it, as well as to any others who may request it.

Preparation for Professions

A large number of Haverford College students plan, after graduation, to enter upon further courses of study. As a liberal arts college, Haverford arranges its curriculum so that students who have such plans are able to meet the entrance requirements of graduate and professional schools. The College does not, however, attempt to anticipate in its own curriculum the work of any graduate or professional school. It is the conviction of the Faculty that the best preparation for graduate work is a liberal education, with sound training in basic disciplines, to which more specialized training may later be added.

A student who intends to go to a professional school is free to choose his major in accord with his principal abilities and interests, since professional schools, such as those of business administration, education, law, medicine, or theology, usually accept students on the basis of merit regardless of their choice of major and, except in the case of medical schools, without specific course requirements. The requirements of most state boards of medical licensure

are such that all students who hope to be admitted to a medical school must take two semester courses, each of which must include laboratory work, in biology (usually Biology 12 and 21), Chemistry 13, 14, 25, and 26, and Physics 13, 14.

Students who plan to go to professional schools should seek advice as early as possible from appropriate Faculty members as follows: business administration, Mr. Teaf; education, Mr. Dunathan; engineering, Mr. Holmes; law, Mr. Diamant; medicine, Mr. W. Cadbury; theology, Mr. Spiegler.

If a student plans to do graduate work in a departmental subject, such as engineering, mathematics, history, etc., he should consult as early as possible with the chairman of the department at Haverford which most nearly corresponds to the department in which he plans to work in graduate school. This adviser will be able to guide him in his selection of courses, his choice of Major (which will not *necessarily* be in the department of his intended graduate study), and other questions which may have bearing on his future.

Law schools, medical schools, and some graduate schools require applicants to take special admission tests. Arrangements for taking these tests are the responsibility of the student concerned; he can obtain information about them from the Faculty members mentioned above.

Regulations

Conflicting Courses

A student is not allowed to elect conflicting courses, except with the permission of the Dean and the two instructors concerned.

Additional Courses

Although the normal load is five courses each semester, a student who desires to do so may take additional work upon approval of his adviser and the Dean. Such approval will not normally be granted to Freshmen, but will usually be granted to a Sophomore, Junior, or Senior who requests it, if his average for the preceding semester was 80 or above. There is no charge for a sixth course taken by a student in full standing, but a fee of \$40.00 is charged for a sixth course taken to make up a deficiency.

Audited Courses

A student who wishes to audit a course should obtain the permission of the instructor. No charge is made for auditing.

Course Changes

Courses may be changed during the first week of each new semester. During that time students are free to make changes after consultation with their Advisers and the Dean.

Changes will not be permitted later except in cases where the student is known to be an excellent student and where he receives the consent of the professor to whose course he is changing and of his Adviser and of the Dean.

Special Cases

Whenever a student gives proof of special abilities, the College is prepared to lay aside such requirements of the normal program as stand between him and the development of his gifts.

The Committee on Academic Standing is empowered to act on requests for exceptions to any of the academic regulations.

Evaluation of Academic Performance

The instructor in each course submits at the end of each semester a numerical grade for each student. For Seniors, a grade of c.i.p. (course in progress) may be submitted at midyears for research courses which run throughout the year. Grades may range from 0 to 100, the minimum passing grade for each course being 60. The grades obtained by each student are averaged together to give evidence of his overall performance during that semester.

The Committee on Academic Standing reviews students' records at intervals, and has authority to drop students from college, or to set requirements for additional work in cases of students whose work is unsatisfactory. As a rule, the Committee will drop from college Freshmen who do not receive the required minimum average of 60, Sophomores whose averages are below 65, and Juniors and Seniors whose averages are below 70. However, any student whose record is such as to justify the belief that he is not availing himself of the opportunities offered by the College may be dropped.

In a year course in which the work of the second semester depends heavily on that of the first, a student who fails the first semester but nevertheless is allowed to continue may receive credit for the first semester (although the grade will not be changed) if his grade for the second semester is 70 or above, provided that the instructor in the course states in writing to the Registrar at the beginning of the second semester that this arrangement applies.

A student who, because of special circumstances such as illness, receives a low grade in a course, may petition his instructor and the Dean for a special examination. If the request is granted, and the student takes the special examination, the grade in that examination will replace the grade originally received in the mid-year or final examination in computing the final grade for that course; the new course grade will be entered in place of the old on the student's transcript, and the semester average will be revised accordingly.

In some circumstances a student may be permitted by the Dean to drop a course, or to take less than the normal load, and thus does not receive grades for the full five courses. The Committee on Academic Standing will review all such cases, and will specify what work the student must perform to be restored to full standing. Similarly, in the case of a student who wishes to accelerate, this Committee will specify conditions under which credit for an extra semester's or year's work will be granted.

Intercollegiate Cooperation

Because of the cooperative relationship among Bryn Mawr College, Haverford College, Swarthmore College, and the University of Pennsylvania, full-time students of any of these four institutions may, upon presentation of the proper credentials, enroll for courses in another institution of the group without additional expense.

Students desiring to take advantage of this arrangement must obtain the permission of the Dean. Permission is granted only if the equivalent of the course in question is not offered at Haverford, and there is no conflict with required appointments at Haverford. This permission is not granted to Freshmen, and is not usually granted to a student whose general average for the preceding semester has been less than 80. Exceptions may be made in case the course at the other institution is necessary for the student's Major. It is the student's responsibility to register in the selected course on registration day at the institution where the course is to be given. The course should also be entered on his registration card at Haverford.

Junior Year Abroad

Well-qualified students who request it may be granted permission to spend the Junior Year studying in a foreign country. Such permission will require approval of the student's Major Supervisor and the Dean. If the student is not a language Major, approval will also be required of the Chairman of the Department of the Language spoken in the country selected. Interested students should consult the Dean early in the Sophomore year; he will direct them to Faculty members best qualified to advise them. The program of studies must be worked out in advance; if the program is completed successfully, the College will grant credit toward the degree for the work of the Junior year. Scholarship funds may be transferred for approved study abroad.

Visitors and Lectures

Individual departments of the Faculty invite visitors to Haverford for varying periods of time to meet with members of the department and with students interested in that field. These departmental visitors, who sometimes give public lectures, contribute considerably to the vitality of the work in the various departments.

This program has been greatly strengthened as a result of a generous bequest from the late William P. Philips. A substantial sum from this bequest is used to bring to Haverford "distinguished scientists and statesmen," whose visits may last anywhere from a few hours to a full academic year. On page 15 of this catalog is a list of the visitors brought to the campus under this bequest during the academic year 1961-1962. Additional gifts have recently been received to enable the College also to bring to the campus distinguished visitors in the Humanities.

The Haverford Library Lectures and the Shipley Lectures, both endowed lectureships, provide annual speakers. The endowment for the former, a gift from the estate of Mary Farnum Brown, is available "for an annual course or series of lectures before the Senior Class of the College, and other students, on the Bible, its history and literature, and as a way may open for it, upon its doctrine and its teaching." The fund for the latter was presented by Samuel R. Shipley, in memory of his father, Thomas Shipley. The income from the Shipley fund is used "for lectures on English literature." At the weekly Collection meetings of the whole College prominent visitors talk to the student body on subjects of current interest.

The Class of 1898 Lectureship was established by that class in 1948.

Graduate Study

The College is empowered to grant degrees of Master of Arts or Master of Science, but very few candidates for these degrees are currently being admitted. Scholarship aid, financed by the T. Wistar Brown fund, is occasionally granted to such candidates, but the College's present policy is more often to utilize these funds for the support of graduate students, not necessarily candidates for graduate degrees, who wish to study in fields which Haverford's position as a Quaker college makes particularly appropriate.

Inquiries about graduate work at Haverford should be addressed to the Director of Admissions.

COURSES OF INSTRUCTION

THE NUMBERING SYSTEM used in this catalog involves a two-digit number for each semester course. Courses numbered from 11 through 20, primarily Freshmen courses, are open to all students; courses numbered from 21 through 30 are open to Sophomores, Juniors and Seniors; courses numbered from 31 through 60 are open to Juniors and Seniors; courses numbered from 61 through 80 are open only to Seniors; courses numbered from 81 through 89 are project courses open to Seniors and, in exceptional circumstances, to Juniors; in each department the course in preparation for the comprehensive examination is numbered 100.

When two course numbers, followed by a single description, are joined by a hyphen, the course is a year course; a student who takes the first semester of such a course must normally take the second semester. When two course numbers followed by a single description are separated by a comma, the first semester may be taken without the second, though the two are normally taken together as a year course. In either case, the first semester course is prerequisite to the second.

Unless further designated with an *a* (first semester) or a *b* (second semester), courses with uneven numbers are given in the first semester; those with even numbers in the second.

Where a course is listed as a prerequisite for another course, a grade of 65 or better will be required in the prerequisite course, unless otherwise specified; in exceptional circumstances, however, the instructor may waive this requirement at his discretion.

Each course carries three semester hours credit, and is offered annually, unless otherwise specified.

Astronomy

PROFESSOR LOUIS C. GREEN, *Chairman*

THE DEPARTMENTAL WORK is designed to give students an understanding of and an interest in the universe in which they live. At all times in the course work the relation of astronomy to the other fields of learning is kept to the fore.

Major Requirements

Astronomy 11, 12; three courses chosen from Astronomy 41, 43, 44, 45, 46; Astronomy 81 or 82, 100; Mathematics 21; Physics 15, 16. Three written comprehensive examinations of three hours each.

Requirements for Honors

All Astronomy majors are regarded as candidates for Honors. The award of Honors will be made on the basis of superior work in the departmental courses, in certain related courses, and in the comprehensive examinations.

- 11, 12. DESCRIPTIVE ASTRONOMY—*Four hours, including one laboratory period a week.* Mr. Green.

Our knowledge of the motions, composition, organization, and evolution of the solar system, stars, galaxies is presented, together with explanations of the methods by which this information is obtained. The laboratory work consists of visual, photographic, and spectroscopic observations of the sun, moon, planets, stars, and nebulae. Prerequisite to Astronomy 12 is Astronomy 11 or consent of the instructor. Not offered in 1962-63.

41. GENERAL RELATIVITY AND COSMOLOGY—Mr. Green.
(Also called Physics 41.)

The tensor calculus is developed and applied to a discussion of general relativity and cosmology. The observational and experimental evidence supporting general relativity is reviewed, and the present state of the evidence favoring expanding and steady state universes is considered. Prerequisite: Mathematics 21 and Physics 15, 16.

Offered in 1963-64 and alternate years.

43. MAGNETOHYDRODYNAMICS—Mr. Green

The principles of magnetohydrodynamics and plasma physics are developed and applied to such topics as the earth's magnetism and paleomagnetism, the Van Allen belts; the origin and variations of the radio, ultraviolet and cosmic ray fluxes; the distribution and alignment of the interstellar dust, the presence of synchrotron radiation in cosmic sources and the magnetic field of the galaxy. Prerequisite: Mathematics 21 and Physics 15, 16.

Offered in 1963-64 and alternate years.

44. QUANTUM MECHANICS OF ATOMS AND MOLECULES—Mr. Green.
(Also called Chemistry 44.)

The structure and spectra of atoms and simple molecules are derived quantum mechanically. A brief demonstration of the use of group theory is included. Considerable time is devoted to the quantum mechanical explanation of the chemical bond, its ionic, covalent and metallic character, as well as its steric properties. The interpretation of laboratory and astronomical spectra is discussed. Prerequisite: Mathematics 21, Physics 13, 14 and Chemistry 13, 14.

In 1962-63, offered at Bryn Mawr College as Chemistry 303b; Mr. Zimmerman.

45. ADVANCED CLASSICAL MECHANICS—Mr. Green.
(Also called Physics 45.)

The Lagrangian and Hamiltonian formulations of mechanics are developed and applied to the motions of the earth. The Hamilton-Jacobi equation is derived. Action-angle variables are demonstrated and, together with perturbation theory, are applied to the motion of natural and artificial satellites. Planetary theory is treated briefly, and galactic dynamics is considered. Prerequisite: Mathematics 21 and Physics 15, 16.

Not offered in 1962-63.

46. STELLAR EVOLUTION AND THE ORIGIN OF THE ELEMENTS—
Mr. Green.

The theory of stellar structure is reviewed and the problem of stellar evolution is discussed on the basis of the theoretical and observational evidence. The significance of the results for the origin of the elements is considered. Prerequisite: Mathematics 21 and Physics 15, 16.

Not offered in 1962-63.

- 81, 82. SPECIAL TOPICS IN ASTROPHYSICS—Mr. Green.

The content of this course may vary from year to year to suit the needs of advanced students. It may be repeated for credit. Prerequisite: Considerable maturity in Mathematics, Physics, and Astronomy.

Biology

ASSOCIATE PROFESSOR IRVING FINGER, *Chairman*

PROFESSOR ARIEL G. LOEWY

ASSOCIATE PROFESSOR MELVIN SANTER

ASSISTANT PROFESSOR MARGARET J. MATHIES

VISITING ASSISTANT PROFESSOR GEORGE L. HAGEN

THE BIOLOGY program is designed to give a solid foundation in general biological principles, an insight into recent developments of experimental aspects of the field, and an opportunity for a research experience in the senior year.

The courses are built up in a sequence of three stages.

- 1) Four introductory courses to be taken at the freshman and sophomore level which cover biological principles (13, 21) and biological diversity (12, 14).

- 2) Six advanced courses (31, 32, 33, 35, 37, 38) to be taken at the junior or senior level designed to create sufficient competence for research in the senior year.
- 3) Three Senior Research Tutorials (61-62, 63-64, 65-66) involving reading of current literature, laboratory research, student lectures and seminars, and a senior thesis. The topics of these research tutorials lie in the areas of principal interest of the instructors.

Major Requirements

Biology 12, 13, 21, 31, 32, either 33 or 38, either 61-62 or 63-64 or 65-66, 100; Chemistry 13, 14, 25. Where prerequisites are required for these courses, the student must achieve a grade of at least 70 unless otherwise stated, or receive the consent of the instructor to apply them as prerequisites.

The Department strongly recommends the following additional courses since they provide a minimum theoretical background for advanced work in Biology: Mathematics 11, 12 or 15, 16, Physics 13, 14, Chemistry 26, 31, 32.

Biology 100 consists of a series of seminars given by students and designed to tie together the work done in the three Senior Research Tutorials, and a written comprehensive examination at the end of the senior year.

Requirements for Honors

Since all Biology majors participate in the departmental Senior research program, they are all candidates for departmental Honors. These are awarded upon consideration of the following criteria of achievement: (a) grade average in courses, (b) Senior research and thesis, (c) performance on the comprehensive examinations, (d) performance on the Graduate Record Examination. The fee for the Graduate Record Examination will be paid by the department.

12. THE ANIMAL KINGDOM—*Four hours, including one laboratory period a week.*
Mr. Finger.

A study of the evolution of structure and function in the animal kingdom. Emphasis is also placed on contributions to general biological principles derived from experiments performed with representative species from the various phyla. One-third of the course is devoted to embryology.

13. ORGANISMS IN TIME AND SPACE—Mr. Loewy.

An introductory course dealing with the phenomenon of biological adaptation. It includes an elementary treatment of the principles of heredity and their application to population dynamics through time (evolution) and space (ecology).

14. THE PLANT KINGDOM—*Three hours. Two class periods and one laboratory period a week.* Mr. Hagen.

A study of evolutionary development in the plant kingdom and of the structure and function of the higher plants. Advanced students can do additional work in plant physiology.

21. PHYSICAL BASIS OF LIFE—*Four hours, including one laboratory period a week.*
Mr. Loewy.

An introductory course in the areas of cell biology conventionally denoted as Physiology, Biochemistry, and Biophysics. The course will attempt to give insight into the methods and subject matter of the physical-chemical approach to the study of living systems. This is a sophomore course; students who wish to postpone it to the junior year should obtain permission of the instructor at the end of the freshman year. Prerequisite: Chemistry 13, 14, or consent of the instructor.

- 31, 32. MICROBIOLOGY—*Four hours, including one laboratory period a week.*
Miss Mathies.

A course dealing with the microbial worlds of bacteria, viruses, fungi and algae. The lectures will define these various groups and describe how they carry on their life processes. Great emphasis will be placed on biochemical studies which have helped to elucidate (1) pathways of substrate metabolism, (2) biosynthetic capabilities, (3) methods of reproduction. In the laboratory the student will learn the techniques of culturing and recognizing various microorganisms and will study bacterial metabolism. Prerequisite: Biology 21; Chemistry 25 must be taken previously or concurrently.

33. GENETICS—*Four hours, including one laboratory period a week.*
Mr. Finger.

A consideration of hereditary mechanisms with special emphasis on the regulation of gene expression and the molecular basis of the phenotype. Lectures will cover the contributions of the nucleus, cytoplasm, and environment to inherited diversity and will be supplemented by laboratory experiments with the fruit fly, corn, and microorganisms. Prerequisite: Biology 13 or consent of instructor. It is recommended that Biology 31, 32 be taken concurrently.

35. READING COURSE IN EVOLUTION THEORY—Mr. Finger.

The purpose of this course is to enable the student to acquaint himself with evolutionary theory, both current and past, by reading advanced textbooks, reviews and scientific journals. Prerequisite: Biology 33 and consent of the instructor.

37. DEVELOPMENTAL BIOLOGY—*Three hours, including one laboratory period a week.*

A study of the development of animal and plant structure and function. Lectures and laboratories will deal mainly with the contributions of cellular and molecular biology to an understanding of the mechanisms leading to cellular and organ differentiation. Prerequisite: Biology 12.

Not offered in 1962-63.

38. CELLULAR PHYSIOLOGY—Mr. Loewy.

The purpose of this course is to develop a theoretical basis for the study of some integrated cell functions (osmotic, electrical and contractile work). Emphasis is placed on the physics and chemistry of proteins and nucleic acids and the sub-microscopic structure of the cell. Prerequisite: Biology 21, Physics 13, 14 to be taken previously or concurrently. It is recommended that Biology 32 be taken concurrently.

61-62. SENIOR RESEARCH TUTORIAL IN COMPARATIVE BIOCHEMISTRY—
Miss Mathies.

Individual student research on various aspects of microbial metabolism. Laboratory work is supplemented with readings, written reports and seminars on advanced topics in microbiology and biochemistry. Prerequisite: Biology 31, 32.

63-64. SENIOR RESEARCH TUTORIAL IN CELLULAR ARCHITECTURE—Mr.
Loewy.

Readings from current textbooks and periodicals on structural aspects of proteins, nucleoproteins, cellular particulates and cells. Considerable emphasis is placed on techniques by which fine structure can be studied. Research in an area relating protein chemistry to cellular fine structure and cellular function. Student lectures on readings and research. Prerequisite: Biology 38.

65-66. SENIOR RESEARCH TUTORIAL IN PHYSIOLOGICAL GENETICS—
Mr. Finger.

Experiments will deal mainly with approaches to the problem of the interaction of genes and non-genic elements in relation to cell differentiation. The experimental work will be carried out with microorganisms, especially protozoa, and experience will be gained in experimental design, culture and handling of small organisms, immunological techniques, fractionation of cell particulates, and cell-free biosynthesis. Prerequisite: Biology 33 or permission of the instructor.

81, 82. PROJECT COURSES—Staff.

Open only by permission of instructor.

Chemistry

ASSOCIATE PROFESSOR ROBERT I. WALTER, *Chairman*

PROFESSOR WILLIAM E. CADBURY, JR.

ASSOCIATE PROFESSOR COLIN F. MACKAY

ASSOCIATE PROFESSOR JOHN P. CHESICK

ASSISTANT PROFESSOR HARMON C. DUNATHAN

ASSISTANT ELEANOR MAASS

THE SEQUENCE of courses in chemistry affords a developing knowledge of chemistry as a rational science, culminating in the exploration of a frontier of scientific knowledge. Fundamental principles and their application to the solution of scientific problems are stressed throughout and illustrated in laboratory work. The first course is designed to give a broad view of the principal concepts, methods and areas of application of the science of chemistry and is therefore well suited to provide experience in science to those primarily interested in other fields. At the same time this course provides the general preparation required for subsequent courses in the areas of inorganic, organic,

analytical and physical chemistry. The course program provides full preparation for professional work in chemistry and offers the opportunity for direct contact with research work in the senior year.

A Major in chemistry who intends to undertake graduate study in the field should include in his program courses 34, 63 and 66, together with German 13-14 and Mathematics 21, 22. This is in accord with the level of accomplishment recommended by the American Chemical Society. For the courses in chemistry needed for premedical preparation, see page 42.

Major Requirements

Chemistry 13, 14, 23, 24, 25, 26, 31, 32, one additional advanced course, and 100.

Physics 13, 14, Math. 15, 16.

The comprehensive examination will cover the general field of the chemistry courses listed above.

Requirements for Honors

Students who are considered qualified will be invited to become candidates for Final Honors in the second semester of the Junior year. Such Honors candidates will be expected to undertake a Senior laboratory research project (courses 81, 82). Accomplishment at a level superior, in both quality and quantity, to that expected in normal course work will be required. The award of Final Honors will be based on superior performance in the research project, in major courses, and in the Senior comprehensive examinations.

- 13, 14. GENERAL CHEMISTRY—*Four hours, including one laboratory period a week.* Department staff.

A study of chemical principles, beginning with the laws of chemical combination and proceeding with detailed interpretation of chemical behavior in terms of the electronic structures of atoms and molecules. Topics covered in the first semester will include: modern theory of atomic structure and its relation to the periodic system of elements, types of chemical bonds with emphasis on ionic compounds, oxidation and reduction, acids and bases, chemical equilibrium. Topics covered in the second semester will include: the nature and properties of the covalent bond, the concepts of structure, isomerism, and functional group, and a survey of the chemistry of some representative covalent compounds of various elements.

- 23, 24. INORGANIC AND ANALYTICAL CHEMISTRY—*Four hours. Two class periods and two laboratory periods a week.* Mr. Chesick.

A study of the principles, methods and factual matter of inorganic and analytical chemistry. The lectures deal with electrolyte solutions, ionic equilibria and systematic inorganic chemistry. Laboratory work will include qualitative and quantitative analysis. Prerequisite: A grade of 70 or higher in Chemistry 14, or consent of the instructor.

- 25, 26. ORGANIC CHEMISTRY—*Four hours, including one laboratory period a week.* Mr. Walter and Mr. Dunathan.

A survey of the chemistry of the functional groups common in organic compounds and of the elementary theoretical basis of organic chemistry. Prerequisite: A grade of 70 or higher in Chemistry 14, or consent of the instructor.

- 31, 32. PHYSICAL CHEMISTRY—Mr. Chesick and Mr. Cadbury.

A study of the physico-chemical properties of matter, the first and second laws of thermodynamics, homogeneous and heterogeneous physical and chemical equilibrium, electrochemistry and chemical kinetics. Prerequisite: Chemistry 23, Physics 13, 14, Math. 15, 16.

34. PHYSICAL CHEMISTRY LABORATORY—*Three hours. Two laboratory periods and one lecture each week.* Mr. Chesick.

Laboratory exercises in physical chemistry in the areas of thermodynamics, electrochemistry, and kinetics. Lectures on the treatment of experimental data. Prerequisite: Chemistry 31 and 32 (may be taken concurrently).

44. QUANTUM MECHANICS OF ATOMS AND MOLECULES—Mr. Green.
(See Astronomy 44.)

61. ADVANCED PHYSICAL CHEMISTRY—Mr. MacKay.

Lectures on various topics in modern physical chemistry. The emphasis is on statistical mechanics and its applications in thermodynamics and kinetics. Atomic and molecular structure is treated briefly. Prerequisite: Chemistry 32.
Not offered in 1962-63.

63. QUALITATIVE ORGANIC ANALYSIS—*Four hours. Two laboratory periods and two lectures each week.* Mr. Dunathan.

The identification of organic compounds with major emphasis on degradative and spectroscopic methods as applied to structure determinations. Prerequisite: Chemistry 26.

64. ADVANCED ORGANIC CHEMISTRY—Mr. Walter.

Selected topics from the fields of stereochemistry, reaction mechanisms and the structure and biosynthesis of natural products. Prerequisite: Chemistry 26.

66. ADVANCED INSTRUMENTAL METHODS—*Four hours. Two lectures and two laboratory periods a week.*

Experimental problems in physical and analytical chemistry, including optical, electro-chemical and other instrumental techniques. Prerequisite: Chemistry 34.
Not offered in 1962-63.

- 81, 82. RESEARCH PROJECTS IN CHEMISTRY—Staff.

Laboratory and library research projects in chemistry. All seniors are urged to take a one-semester library research project on a topic selected from a list furnished by the staff. The report on the project will be presented in both written and oral form.

Laboratory research projects of two semesters duration are expected of candidates for Final Honors and may be taken by other students only with the consent of the Department staff.

Classics

PROFESSOR HOWARD COMFORT, *Chairman*

VISITING ASSOCIATE PROFESSOR ELIZABETH GOULD ZENN

ASSISTANT PROFESSOR GEORGE A. KENNEDY

THE CLASSICS DEPARTMENT offers instruction in the language, literature and civilization of the Greek and Roman peoples. Knowledge of the Classics is fundamental to an understanding and proper use of the English and Romance languages; familiarity with the Classics is an indispensable background for the Western European literary tradition; and the history and civilization of Greece and Rome provide an explanation of, and parallels to, many pressing contemporary political, economic, social and religious problems.

Principal emphasis is laid upon meeting the Greek and Roman legacy through the medium of the original languages, but courses in Classical Civilization offer opportunities to study ancient history and literature in English translation.

Two major programs offer students an opportunity either to specialize in the ancient world or to follow the Classical Tradition into its modern manifestations.

Major Requirements

Two major programs are available in this department:

A. Classics Major: six full year courses divided between Greek and Latin, of which Classics 31, 32 or 33, 34 or 81, 82 must be one; Classics 100; a written comprehensive examination.

B. Classics and the Classical Tradition Major: approval of a specific program involving the study of at least one ancient language and one modern field; four full year courses in Greek or Latin; four semester courses on the related field in other departments; a thesis, ordinarily written in connection with Classics 81, 82; Classics 100; a written comprehensive examination.

Requirements for Honors

A. Classics Major. A Classics major who is considered qualified will be invited to become an Honors candidate at the end of the first term of the Junior year. In consultation between the student and his adviser an individual reading list in Greek, Latin, and modern languages will be drawn up, adapted to the student's needs and interests. He will be examined on this list as an additional part of his comprehensive examination. Honors and High Honors will be awarded on the basis of these examinations and the student's course work.

B. Classics and the Classical Tradition Major. All students admitted to this program will be deemed Honors candidates. Honors and High Honors will be awarded on the basis of the thesis, the comprehensive examination, and the student's course work.

Courses in Greek Language and Literature

11-12. ELEMENTARY GREEK—Mr. Kennedy.

Thorough study of the elements of the language followed by reading of at least one important work of Greek literature such as a dialogue of Plato or a play of Euripides.

21, 22. INTRODUCTION TO GREEK LITERATURE—Mr. Kennedy.

Extensive reading in Homer, lyric poetry, drama, and prose with lectures and reports on the history and chief features of Greek literature. Prerequisite: Classics 11-12 or the equivalent.

31, 32. GREEK LITERATURE IN THE FIFTH CENTURY—Mr. Kennedy.

Study of Aeschylus, Sophocles, Herodotus and Thucydides or of other Greek authors as dictated by the needs of the students enrolled. Prerequisite: Classics 21 or 22 or the equivalent.

Offered in 1962-63 and alternate years.

33, 34. GREEK LITERATURE IN THE FOURTH CENTURY AND LATER—Mr. Kennedy.

Study of Demosthenes, Aristotle, and other authors as dictated by the needs of the students enrolled. Students majoring in Classics will be afforded opportunities to practice Greek composition. May be repeated for credit with change of content. Prerequisite: Classics 21 or 22 or the equivalent.

Offered in 1963-64 and alternate years.

Courses in Latin Language and Literature

13-14. ELEMENTARY LATIN—Mr. Comfort.

Basic instruction in Latin declension and conjugation; then Cicero's *First Oration Against Catiline*, nearly all the poems of Catullus, and selected Letters of Pliny. Not offered in 1962-63.

15, 16. LATIN LITERATURE—Mr. Comfort.

Review of grammar and vocabulary; reading in Vergil and/or Cicero. Prerequisite: Classics 13-14 or two or three years of preparatory Latin.

17, 18. LATIN LITERATURE—Mr. Comfort.

Reading of Roman comedy and of authors of the Republic and Augustan Age. Prerequisite: Classics 15, 16 or four years of preparatory Latin.

23, 24. INDIVIDUAL TOPICS IN LATIN LITERATURE—Messrs. Comfort and Kennedy.

Systematic study of one or more aspects of Latin literature and Roman life. Prerequisites at the discretion of the instructor.

These courses may be repeated for credit.

81, 82. PROJECTS IN CLASSICS—Messrs. Comfort and Kennedy.

Prerequisites at the discretion of the instructor.

Courses in Classical Civilization not requiring the use of Greek or Latin

19-20. CLASSICAL CIVILIZATION: HISTORY AND LITERATURE—Mr. Kennedy. (Also called History 19-20.)

Study of the significant events and trends of ancient history and of the chief works of Greek and Latin literature in English translation.

Offered in 1962-63 and alternate years.

29. SEMINAR IN GREEK CIVILIZATION—Mr. Kennedy.
(Also called History 29.)

Reading in translation of extensive portions of the literary remains of one period of Greek civilization, together with study of the history of the age. Seminar papers will offer opportunities to individual students to emphasize either literature or history. Topic for 1963-64: The Fifth Century.

Offered in 1963-64 and alternate years.

30. SEMINAR IN ROMAN CIVILIZATION—Mr. Kennedy.
(Also called History 30.)

Reading in translation of extensive portions of the literary remains of one period of Roman civilization, together with study of the history of the age. Seminar papers will offer opportunities to individual students to emphasize either literature or history. Topic for 1963-64: The Roman Republic and the Hellenistic East.

Offered in 1963-64 and alternate years.

Economics

PROFESSOR HOWARD M. TEAF, JR., *Chairman*

PROFESSOR HOLLAND HUNTER

PROFESSOR PHILIP W. BELL

ASSISTANT PROFESSOR EUGENE SMOLENSKY

THE WORK in Economics is intended primarily to develop in students an understanding of the working of the American economy and less developed economies, to give training in the analysis of economic data, to arouse an informed interest in public affairs, and to lay the basis for the formation of intelligent economic policy judgments.

The introductory courses, Economics 11 and 12, are designed to give the basic understanding of economic processes and of economic organization that should be part of a liberal education. The Economics 23, 24 sequence is devoted to the basic data with which economists work and the ways in which they can be analyzed. These courses develop the principal tools of research which can be applied in upperclass courses. The advanced courses are offered as part of a program of liberal education, but are designed to meet, at the same time, the needs of men going on to graduate work in economics, business administration, or related fields. Several of the advanced courses should be of special value to men planning to enter the fields of business, law, urban planning, the foreign service, or other government work. In the advanced courses emphasis is placed on the use of source materials and on research methods in economics, and students gain experience in the preparation of analyses and reports.

In his senior year each student majoring in Economics will normally undertake a research project in Economics 81 or 82, under the close supervision of a member of the Department, which may be continued into the second semester.

Men expecting to major in Economics are advised to take, in the Freshman year, Economics 11 and 12, and at least two semesters of Mathematics.

Major Requirements

Economics 11, 12, 23, 31, 32, normally 61, 81 or 82, 100, and two other semester courses in Economics. Economics 100 is a seminar, designed to give perspective to studies in the major program. Students will review economic systems in a general-equilibrium context, as well as the measurement of economic performance in terms of welfare analysis. The nature and validity of economic assumptions will be reconsidered.

Two semesters of Mathematics and three other approved semester courses in the Social Sciences or Mathematics.

A comprehensive examination, which normally includes a written examination, an oral examination, and the preparation of a research memorandum.

Requirements for Honors

Plans for Honors work usually will be laid at the end of the Junior year. This work includes a paper of high quality, usually written in conjunction with the Senior project course or courses. At least one examiner from outside the College will participate in oral examinations of candidates for High Honors.

11. ECONOMIC EFFICIENCY IN A COMPLEX SOCIETY—Mr. Teaf, Mr. Bell, and Mr. Smolensky.

A study of the main features of modern economic life in the United States including the following topics: (1) the resource base and technological setting; (2) the behavior of consumers and business firms; (3) price theory and problems of efficiency in the allocation of fully employed resources; (4) income, employment, and monetary theory and problems involved in providing for the full utilization of existing resources.

(Note: Section 3 of this course will treat topics in a more mathematical fashion than other sections; no particular mathematics background will, however, be required.)

12. ECONOMIC GROWTH AND WELFARE IN A WORLD SETTING—Mr. Smolensky.

Extension of the work in Economics 11 to the world economy; analysis of problems of growth and the distribution of income in developed and undeveloped countries and within the world community as a whole; problems involved in economic planning under various types of economic system.

Economics 11 and 12 together present the basic elements for an understanding of current economic problems in this country and in the world at large. Students who are planning further work in economics or other social sciences are encouraged to take both courses. Normally Economics 11 should be taken before Economics 12, although exceptions may be made with consent of the instructor in charge.

23. BUSINESS AND NATIONAL ACCOUNTING DATA ON INCOME AND WEALTH—Mr. Teaf.

A study of the fundamentals of corporate accounting and their extension to the national accounts. Emphasis is placed on the derivation of the major reports of businesses and of the national economy. Prerequisite: Economics 11, 12, or permission of the instructor.

24. MATHEMATICAL ECONOMICS AND THE USE OF EMPIRICAL DATA—Mr. Bell.

Mathematical formulation of models for solving economic problems and the use of such models in applied economic research. Material includes classical statements of optimal and non-optimal behavior of firms, households, and the economy as a whole, linear programming, input-output analysis, and elementary game theory, as well as multiple regression and correlation, and other statistical techniques employed in the empirical testing of economic models. Students in this course will learn to use high-speed electronic computing equipment for research purposes. Prerequisite: One year of college mathematics.

31. MONEY AND BANKING: THEORY AND POLICY—Mr. Bell.

The role and relative importance of money as a determinant of the aggregate level of income and employment, the general price level, and the level and structure of interest rates in a closed economy, are analyzed and appraised. Institutional aspects of commercial and central banks, and other financial and non-financial intermediaries relevant for monetary policy, are studied. The policies of the Federal Reserve System since the Second World War are evaluated. Prerequisite: Economics 11 and 12, or permission of the instructor.

32. GOVERNMENT FINANCE—Mr. Smolensky.

An analysis of major issues in the field of government revenues and expenditures. Topics considered include standards for government expenditures, principles of equity in taxation, fiscal policy for stability and growth, political and economic problems in the implementation of public policy. Prerequisite: Economics 11.

33. POPULATION POLICIES AND PROBLEMS—Mr. Williamson.
(See Sociology 33.)

34. SOCIAL WELFARE AND PUBLIC POLICY—Mr. Somers.
(See Political Science 34.)

36. THE MODERN CORPORATION—Mr. Teaf.

An analysis of the institutional fundamentals underlying corporate decision-making: essentials of economic and legal organization, relations with securities holders, securities markets, and regulatory authorities; ethical issues surrounding corporate performance in contemporary society. Prerequisite: Economics 23.

37. INDUSTRIAL STRUCTURE AND MARKET BEHAVIOR—Mr. Baratz.
(Also called Political Science 37.)

Theoretical and empirical analysis of the structure of industrial markets and the behavior of business firms in a competitive economy; legal restrictions on business policy; social and political implications of public regulation of private enterprises. Prerequisite: Economics 11, 12.

Offered annually at Bryn Mawr as Economics 201a.

39, 40. INTERNATIONAL RELATIONS: POLITICAL AND ECONOMIC—Mr. Spanier, Mr. Bell.

An examination of human, material, and cultural factors and their interconnection in the making of national goals and national strategies in the setting of the world community. Concentration on major international developments since 1918, including analysis of selected problems, such as economic development, stabilization of trade and payments, arms control, settlement of disputes. Individual or group research projects required. The first term focuses on political analysis, the second term on economic analysis. Prerequisites: Political Science 11, 12 and Economics 11, 12, or permission of the instructor.

41. LABOR ECONOMICS AND LABOR RELATIONS—Mr. Teaf.
(Also called Sociology 41.)

A study of the fundamentals of the employer-employee relationship, such as wages, hours, security; the functioning of labor organizations and government; the purposes and methods of collective bargaining. Special emphasis is placed on methods of resolving industrial conflict. Prerequisite: Economics 11 and 12, or permission of the instructor.

42. THE ECONOMICS OF DEVELOPMENT—Mr. Teaf.

An examination of the economic and non-economic factors accounting for low per-capita incomes in underdeveloped economies, of the problems encountered in initiating the process of economic development, especially in non-Western societies, and of major policy issues associated with foreign aid for developing economies. The recent experience of India and China is reviewed. Short student research papers required. Prerequisite: Economics 11, 12, and two courses in political Science or Sociology, or permission of the instructor.

43. THE SOVIET SYSTEM—Mr. Hunter.
(Also called Political Science 43.)

An analysis of the Soviet record as a case study in rapid industrialization. The evolution of major political, economic, and social institutions is reviewed; attention is given to trends and prospects. The topics examined include: the background of the 1917 Revolutions; the rise of Stalin and evolution of total government; forced industrialization and agricultural collectivization; stabilization of Soviet social organization; factors explaining wartime survival and postwar growth; evaluation of trends since 1953. Prerequisite: Four semester courses in the social sciences, or permission of the instructor.

Not offered in 1962-63.

47. REGIONAL ANALYSIS—Mr. Smolensky.
(Also called Sociology 47.)

The techniques of economic location theory are developed and used to explain differences in the economic structure of regions. Problems of regional income inequality, population and industrial migration, and the economies of cities are examined. Prerequisite: Economics 11, 12.

61. SENIOR SEMINAR—Mr. Smolensky.

Analysis of quantitative studies with special emphasis on the statistical and theoretical techniques employed. Readings change each year to accommodate the special interests of each class. A paper involving original quantitative analysis will be required. Students who choose to do so, may extend their research into a second semester in Economics 82.

81, 82. PROJECT AND READING COURSES—Members of the Department.

Engineering

PROFESSOR CLAYTON W. HOLMES, *Chairman*

ASSOCIATE PROFESSOR THEODORE B. HETZEL

ASSISTANT, NORMAN M. WILSON

HAVERFORD gives a fundamental engineering education based on the broad, well established liberal arts program which is so much emphasized as needed to meet today's requirements, and which is exceptionally well suited for preparing a student for a career in engineering, business or industry.

Students not intending to enter the highly specialized fields of design and research will find the Haverford courses ample for their needs. Graduates of Haverford who have majored in engineering are admitted to the student-engineers' courses of the leading industrial companies on equal terms with graduates of engineering colleges. Those who desire more technical training before entering the active work of the profession are granted substantial credit toward advanced standing in technical institutions or are admitted to their graduate schools.

The Engineering Major courses, including the science and mathematics courses that are usual in engineering schools, combined with courses in economics, sociology, and psychology, constitute a program such as is sometimes called "General Engineering" or "Engineering Administration." In addition the limited elective requirements insure breadth in the liberal arts, and nine free electives make a flexible program providing opportunity for additional concentration in science and engineering.

The engineering courses are conducted in Hilles Laboratory of Applied Science, a modern building with mechanical and electrical laboratories and other necessary facilities. Classes are small with close student-professor relationships.

Exceptional facilities are offered by the numerous industries in the Philadelphia area that welcome our students to visit their plants and the technical societies that invite them to their meetings. Frequent field trips are made.

Major Requirements

Engineering 11, 12, 21, 22, 33, 34, 41, 42, 100, and a Departmental seminar in which each Junior presents one paper, each Senior two papers on investigations of some engineering topic. Mathematics 15, 16, Physics 13, 14, and two half-year courses in Chemistry. The problems of the comprehensive examination are comparable to those of state examinations for a professional engineer's license.

Courses in Mathematics, Physics and Chemistry will be considered preliminary courses as defined on page 39.

Requirements for Honors

Honors in Engineering are granted on the basis of superior work in courses, particularly project courses, and in Engineering 100.

11. PRINCIPLES OF ENGINEERING DRAWING AND SHOP METHODS—*Three laboratory periods a week.* Mr. Hetzel and Mr. Wilson.

Two laboratory periods a week of instruction in the methods and conventions of engineering drawing and sketching: the use of instruments; orthographic, isometric, oblique and perspective drawings; intersections and developments; dimensioning. One period a week is spent in the shop working on metal-working machine tools. Two inspection trips to local industries.

12. ENGINEERING DRAWING, SURVEYING, AND SHOP METHODS—*Three laboratory periods a week.* Mr. Hetzel and Mr. Wilson.

Two laboratory periods a week of drawing and surveying: detail and assembly drawings; problems in descriptive geometry of lines and planes; a study of uniform and logarithmic graphs and of nomographs; solution of typical engineering problems; eight field exercises in plane surveying; surveying computations, drawing and mapping. One period a week is spent in the shop, machine-tool work on lathe, shaper and milling machine. Inspection trips. Prerequisite: Engineering 11.

21. KINEMATICS OF MACHINES—*One class period and two laboratory periods a week.* Mr. Holmes.

This course is an introduction to the understanding of machinery through the analysis of displacement and velocity in linkages and other mechanisms by means of diagrams and centros, the design of cams, gears and gear trains and other devices for the transmission of motion. Prerequisite: Engineering 11 or consent of instructor.

22. ANALYTICAL MECHANICS—Mr. Holmes.

A study of forces and moments of forces; determination of forces in trusses and cranes; centroids and center of gravity; rectilinear and curvilinear motion; translation and rotation of bodies; work, power, and energy; impulse and momentum; balancing and moments of inertia. Prerequisite or parallel course: Mathematics 15, 16.

33. ELEMENTS OF ELECTRICAL ENGINEERING—*Four hours, including one laboratory period a week.* Mr. Hetzel.

Electrical and magnetic circuits, electrical measurements, theory and performance of direct-current machinery and distribution systems are studied by text assignments and problems, lecture and class discussion, and laboratory experiments. Prerequisite: Physics 13, 14, Mathematics 15, 16.

34. ELEMENTS OF ELECTRICAL ENGINEERING—*Four hours, including one laboratory period a week.* Mr. Hetzel.

This course deals with alternating-current circuits and machinery: single phase and polyphase circuits, transformers, generators, motors, transmission and distribution systems, instruments, control systems, and an introduction to electronics. Prerequisite: Engineering 33.

41. MECHANICS OF MATERIALS—*Two class periods and one laboratory period a week.* Mr. Holmes.

A study of stress and strain, beams and columns, shafting, girders, combined stresses, etc. Inspection trips. Prerequisite: Mathematics 15, 16 and Engineering 22.

42. THERMODYNAMICS—Mr. Holmes.

Energy, gas laws, vapors; mixtures of gases and vapors; theoretical and actual thermodynamic cycles for power and refrigeration. Prerequisite: Physics 13, 14.

- 43, 44. ELECTRONICS—(See Physics 43, 44.)

- 81, 82. SPECIAL PROJECTS

Open to all students with the necessary prerequisites after consultation with the instructor. Students in Engineering are encouraged to do individual work in some special field of investigation.

The following fields of study are suggested:

FLUID MECHANICS. Mr. Holmes.

Prerequisite: Mathematics 15, 16, and Physics 13, 14.

DESIGN OF MACHINE ELEMENTS. Mr. Holmes.

Prerequisite: Mathematics 15, 16, Engineering 22, 41.

INTERNAL COMBUSTION ENGINES. Mr. Hetzel.

Prerequisite: Physics 13, 14.

English

ASSOCIATE PROFESSOR EDGAR S. ROSE, *Chairman*

PROFESSOR RALPH M. SARGENT, *Acting Chairman, Second Semester*

PROFESSOR JOHN A. LESTER, JR.

PROFESSOR CRAIG R. THOMPSON

ASSOCIATE PROFESSOR JOHN ASHMEAD, JR.

ASSOCIATE PROFESSOR FRANK J. QUINN

ASSOCIATE PROFESSOR ALFRED W. SATTERTHWAITE

ASSISTANT PROFESSOR GUY M. DAVENPORT, JR.

VISITING ASSISTANT PROFESSOR LAURENCE B. HOLLAND

INSTRUCTOR VERNON L. INGRAHAM

THE ENGLISH DEPARTMENT offers the opportunity to study significant formulations of the human spirit in the English language, and to do critical and creative writing.

Many students who choose to major in English intend to pursue some aspect of the subject professionally: to proceed to graduate school, to teach literature, or to undertake a literary career. The program of the Department provides preliminary education for all these purposes. The study of English literature is recommended likewise to those students who wish to acquire a knowledge of their literary heritage, or to gain an acquaintance with the use of the English language, before entering a non-literary profession, such as law, government service, the ministry, medicine, or business. The Department welcomes such students.

English 11-12 is required of all Freshmen in the college; this course, or its equivalent, is a prerequisite to all further work in the Department. English 11-12 provides tutorial instruction in writing and an introduction to the study of literature.

Students who have difficulty in expressing themselves orally are recommended to take work in public speaking. The attention of slow readers is called to the remedial work in reading.

A central sequence of courses is arranged for students majoring in English. It consists of 23 (Renaissance) and 24 (Seventeenth Century) normally to be taken in the Sophomore year, and 31 (Eighteenth Century) and 32 (Nineteenth Century) normally to be taken in the Junior year. Courses numbered in the 60's are seminar courses, in most cases based on earlier work in the period.

Major Requirements

Three semester courses from the following: Renaissance (23), Seventeenth Century (24), Eighteenth Century (31), Nineteenth Century (32). Two other English courses chosen in consultation with the chairman of the department. Two courses numbered in the 60's (or one in the 60's and one in the 80's). English 100. Eight semester courses in all. Any one-semester course in classical literature (in Greek, Latin, or English) may be counted toward the English major.

The Comprehensive Examination in English will require a knowledge of the four major periods of English literature as provided in courses 23, 24, 31 and 32. Supporting material may be chosen from Chaucer (64), Shakespeare (33 and 62), American literature (25 and 26), and Twentieth Century (35 and 36).

Students who plan to proceed to graduate work are reminded that virtually all graduate schools require a reading knowledge of both French and German, and many of the leading ones require a knowledge of Latin also, for the Ph.D. degree in English.

Requirements for Honors

Students whose work shows superior achievement will be invited to become Honors candidates at the end of their Junior year. Candidates for Honors must achieve an over-

all average of 85 or better in English courses (including English 100) completed in their Junior and Senior years.

Each Honors candidate must submit a substantial paper which demonstrates his ability to handle critically and to present in scholarly fashion an acceptable literary subject. This paper must be in the hands of the Chairman of the Department not later than May 1st of the student's Senior year. To be accepted for Honors, this paper must, in the judgment of the English faculty, reveal superior achievement.

Final Honors are awarded on the basis of achievement in courses, an Honors project and the Comprehensive examination. High Honors are granted on the further evidence of distinction in an Oral examination.

11-12. READING AND WRITING ON HUMAN VALUES—Messrs. Ashmead, Davenport, Ingraham, Lester, Quinn, Rose, Sargent.

Tutorial instruction in writing. Readings in the Humanities, centered on values in Western Civilization. Weekly writing, based on reading program. Two class meetings and one tutorial meeting weekly.

21. GENERAL COURSE IN ENGLISH LITERATURE—Mr. Lester.

Major figures in English Literature from the *Beowulf* poet to Milton (including Shakespeare).

22. GENERAL COURSE IN ENGLISH LITERATURE—Mr. Davenport.

Major figures in English Literature from Swift to Eliot.

23. LITERATURE OF THE ENGLISH RENAISSANCE—Mr. Sargent and Mr. Satterthwaite.

A critical study of poetry, prose and drama from Wyatt to Jonson, with brief attention to Shakespeare. The first in a sequence of period courses designed primarily for students intending to major in literature. Enrollment limited.

24. LITERATURE OF THE SEVENTEENTH CENTURY—Mr. Quinn and Mr. Satterthwaite.

A study of English literature from the metaphysical poets to Dryden, including Milton. The second of the sequence designed primarily for those intending to major in literature. Enrollment limited.

25. AMERICAN LITERATURE TO WHITMAN—Mr. Ashmead.

Chiefly devoted to Poe, Hawthorne, Melville; Emerson, Thoreau, Whitman.

26. AMERICAN LITERATURE FROM WHITMAN TO DREISER—Mr. Ashmead.

Chiefly devoted to Whitman, Dickinson, Lanier; Twain, Howells, James; Melville, Crane, Dreiser.

31. LITERATURE OF THE EIGHTEENTH CENTURY—Mr. Rose.

A study of the major literary works of the neo-classic and early romantic movements, from Defoe to Wordsworth and Coleridge. Prerequisite: English 24, or consent of the instructor.

32. LITERATURE OF THE NINETEENTH CENTURY—Mr. Lester.

A study of major literary works of the romantic and Victorian periods, from Byron to Hardy. Prerequisite: English 31, or consent of the instructor.

33. **SHAKESPEARE—Mr. Sargent.**
Extensive reading in Shakespeare's plays. Designed primarily for students majoring in literature. Prerequisite: English 21, 22, 23, or 24, or consent of the instructor. Enrollment limited.
35. **BRITISH LITERATURE OF THE TWENTIETH CENTURY—Mr. Davenport.**
Selected writers in poetry, prose and drama. Prerequisite: Two courses in English beyond 11-12.
36. **AMERICAN LITERATURE OF THE TWENTIETH CENTURY—Mr. Holland.**
Selected writers in poetry, prose and drama. Prerequisite: Two courses in English beyond 11-12.
37. **CREATIVE WRITING—Mr. Ashmead.**
Practice in writing imaginative literature. Chiefly confined to prose fiction. Regular assignments, class discussions and personal conferences. Prerequisite: Junior standing. May be repeated for credit.
- 49-50. **EUROPEAN THOUGHT AND LETTERS, 1100-1600—Mr. Thompson.**
(Also called History 49-50.)
History of ideas in the later Middle Ages and Renaissance, with emphasis on the relations between literature and the philosophical and religious developments of the epoch.
Authors read include Abelard, Aquinas, Dante, Petrarch, Erasmus, More, Montaigne, Hooker, Bacon, and others. Students electing the course are expected to have some antecedent knowledge of European history and a reading knowledge of Latin or of a relevant modern language.
Offered in 1962-63 and alternate years.
61. **TOPICS IN NINETEENTH-CENTURY LITERATURE—Mr. Lester.**
Seminar discussions and independent critical studies. Prerequisite: English 32 and consent of the instructor. Limited to nine students. Priority to Senior English majors.
62. **TOPICS IN SHAKESPEARE—Mr. Sargent.**
Close study of a few plays. Seminar. Prerequisite: English 23 or 33 or consent of the instructor. Priority to Senior English majors.
64. **CHAUCEER AND THE CHAUCERIANS—Mr. Quinn.**
A study of the *Canterbury Tales*, *Troilus and Criseyde*, Chaucer's prose, and the work of Henryson and Dunbar. Prerequisite: Senior standing and consent of the instructor. Seminar. Limited to nine students.
65. **TOPICS IN AMERICAN LITERATURE—Mr. Holland.**
Chiefly devoted to advanced studies in American literature of the Eighteenth and Nineteenth centuries. Individual work. Prerequisite: English 25, 26 or 36, or consent of the instructor. Limited to nine students. Priority to Senior English majors.
66. **TOPICS IN CONTEMPORARY LITERATURE—Mr. Holland.**
Advanced studies of contemporary literature, British and American. Individual work. Prerequisite: Four semester courses in English (beyond 11-12) or consent of the instructor. Limited to nine students. Priority to Senior English majors.

81, 82. PROJECTS—The Department.

Project courses consist of individual study and writing, under the supervision of a member of the department. They are available only to advanced students and are offered only at the discretion of individual teachers. Candidates for Honors are expected to undertake, in the last semester of their Senior year, a Project leading to the Honors paper.

French

(See Romance Languages)

General Courses

HUMANITIES 21-22. INTERPRETATION OF LIFE IN WESTERN LITERATURE

—Mr. Butman, Mr. Davenport, Mr. Gutwirth, and Mr. Quinn.

A study in their entirety of selected literary and philosophic works which are great imaginative presentations of attitudes toward life. The course spans Western culture from Homer to the present, and the readings are drawn from all the major literatures of the West, in the best available translations. Stress is laid on student involvement in issues raised by these books; consequently, the class work is handled entirely by the discussion method. Prerequisite: English 11-12.

HUMANITIES 45-46. INTERDEPARTMENTAL SEMINAR.

Study of a literary genre or of the thought and letters of a particular period across national and linguistic boundaries. Individual students will be expected to take a leading part in the discussion of works falling within their major subjects. Faculty consultants will be called in from time to time to lecture or participate in the discussion of specialized topics. A reading knowledge of one foreign language relevant to the topic is required. Limited to 12 students. Prerequisite: consent of the instructor.

Offered in 1963-64 and alternate years. Topic and instructor to be announced.

PHYSICAL SCIENCE 36. HISTORY AND PHILOSOPHY OF SCIENCE—Mr. Green.

(Also called Philosophy 36).

This course is designed for the non-science major and the science major alike. The rise of modern science is discussed against the background of 16th and 17th century thought. The history of mechanics is carried forward to the relativity theory, and the history of optics and atomic structure leads to the quantum mechanics. The development of our ideas as to the nature of science is described and the implications of such concepts as the relativity of space and time, the indeterminacy principle, and complementarity are discussed. Prerequisite: the consent of the instructor, or a year of college mathematics.

Not offered in 1962-63.

German

PROFESSOR HARRY W. PFUND, *Chairman*

ASSOCIATE PROFESSOR JOHN R. CARY

ASSISTANT PROFESSOR OTTOMAR RUDOLF

LECTURER JOACHIM MAASS

LECTURER CHARLOTTE ANDERSON

ASSISTANT JUSTUS COBET

THE MAIN OBJECTIVE of the German courses is twofold: 1) the acquisition of the language; 2) the study of the literature and civilization of which it is the medium. The courses are planned and conducted with the aim of enabling the individual student to fulfill most effectively his prospective needs. Hence provision is made for acquiring a practical speaking knowledge of the language as well as the ability to read it for undergraduate and post-graduate research, for which in many fields it is indispensable. An appreciation of German literature from the Middle Ages to the Contemporary Period is offered in a relatively wide range of courses.

All students offering German for entrance are placed at the level where they can presumably profit best by the course, according to a placement test given by the department.

German 11-12, 13-14, and 22 are primarily language courses. German 15 stresses literature, but combines this with practice in the language. The remaining courses are devoted largely to the history of German literature from the earliest times to the present, and to the intensive study of special periods and eminent authors. As much as possible, German is the language of the classroom. A language laboratory is available.

Opportunity is given to students who complete German 11-12 or German 13-14 with distinction to advance rapidly into higher courses by passing a special examination on a prescribed program of collateral reading.

Residence in the German House and participation in the German Club afford an opportunity for supplementary oral practise.

Students who might profitably spend their Junior year in Germany are encouraged by the Department to apply for admission to the institutions sponsoring foreign study groups.

Students majoring in German are encouraged to spend a summer in Germany or in a German speaking country. Foreign summer schools and projects sponsored by the American Friends Service Committee and other organizations offer exceptional opportunities in this regard.

Major Requirements

German 22, 23-24, 26, 32, 36 and 100.

Supporting courses to be arranged in conference with the Major Supervisor.

A comprehensive examination covering: 1. The German language; 2. History of the German language; 3. German literature; 4. German history, 800-1945; and 5. A special period, literary movement, or author.

Requirements for Honors

Students who are considered qualified to become candidates for Final Honors will be required to complete one additional semester course in German beyond the minimum major requirements and to present an extensive thesis indicating thorough knowledge of one outstanding author or of a well-defined topic dealing with at least one literary period. A further requirement will be an oral examination following superior achievement in the comprehensive examinations.

11-12. ELEMENTARY GERMAN—Staff.

The aural-oral method is emphasized. Reading is stressed increasingly as the course progresses.

13-14. INTERMEDIATE GERMAN—Staff.

Important aspects of grammar are reviewed in the first semester. Works of modern authors are read and discussed throughout the year. Oral and written command of the language is stressed. Prerequisite: German 11-12 or the equivalent.

15. INTRODUCTION TO GERMAN LITERATURE AND CULTURE—Mr. Rudolf.

A selection of representative works in German literature from the age of Goethe to the contemporary period. Lectures in German on the history of German literature and culture, Oral reports; papers. Prerequisite: German 13-14 or the equivalent.

22. ADVANCED COMPOSITION AND CONVERSATION—Mr. Rudolf.

The acquisition of an idiomatic command of spoken and written German is stressed. Reports and papers on aspects of German culture selected by the student in consultation with the instructor. Prerequisite: German 15 or the equivalent.

23-24. THE AGE OF GOETHE—Mr. Pfund.

Lectures and discussions on, and readings of, the chief works of Goethe (exclusive of *Faust*), Schiller, and certain of their contemporaries with a view to an understanding of the periods of Enlightenment, Storm and Stress, Classicism, and the beginnings of Romanticism. Emphasis upon literary and aesthetic appreciation and cultural backgrounds. Prerequisite: German 15 or the equivalent.

Offered in 1962-63.

26. THE NINETEENTH CENTURY—Mr. Cary.

The significant German literary developments of the period beginning with Heine and culminating in the major representatives of *Realismus*. Emphasis will be placed on the Novelle and the drama. Prerequisite: German 15.

Offered in 1963-64 and alternate years.

28. MODERN GERMAN LITERATURE—Mr. Maass.

A critical analysis and aesthetic evaluation of representative works of Thomas Mann, Kafka, Rilke, Werfel and others. Lectures, discussions, reports, and one term paper. The course will be conducted in English. Admission by permission of the instructor or the Chairman of the Department.

Offered in 1962-63 and alternate years.

32a. GERMAN ROMANTICISM—Mr. Cary

Romanticism as the dominant movement in German literature and thought in the first half of the nineteenth century. Prerequisite: German 23-24 or consent of the instructor.

Offered in 1962-63 and alternate years.

33b. GERMAN LYRIC POETRY—Mr. Pfund.

Lyricists from Walter von der Vogelweide to contemporary poets are read and discussed with emphasis on Goethe, Hölderlin, the Romanticists, Mörike, George, Hofmannsthal and Rilke. Prerequisite: At least one course beyond German 15. Offered in 1962-63 and alternate years.

36a. HISTORY OF GERMAN LITERATURE FROM ITS ORIGINS TO THE SEVENTEENTH CENTURY—Mr. Pfund.

Lectures in German, with collateral reading in modern German of the *Nibelungenlied*, Hartmann von Aue, Wolfram von Eschenbach, Gottfried von Strassburg, and others. Discussion, written and oral reports. Prerequisite: German 23-24 or permission of the instructor.

Offered in 1963-64 and alternate years.

37. FAUST—Mr. Pfund.

An intensive study of Goethe's *Faust* in the original. Consideration is given to kindred works in European literature. Prerequisite: At least one course beyond German 15.

Offered in 1963-64.

81 or 82. Mr. Pfund, Mr. Cary, and Mr. Rudolf.

Individual work in various fields of German culture, such as literary theory, Middle High German, Baroque literature and contemporary literature. Prerequisite: At least one course beyond German 15. May be repeated for credit with change of content.

History

PROFESSOR WALLACE T. MACCAFFREY, *Chairman*

PRESIDENT HUGH BORTON

PROFESSOR CRAIG R. THOMPSON

PROFESSOR EDWIN B. BRONNER

VISITING ASSOCIATE PROFESSOR ARTHUR P. DUDDEN

ASSISTANT PROFESSOR JOHN P. SPIELMAN, JR.

THE COURSES IN HISTORY are designed to give some conception of the development of the civilizations which exist in Europe, in East Asia, and in the United States today. Since history is the story of what men have done, it is related to every other field in the curriculum, but the limitation of time forces a selection of those aspects of human activity which can be treated in any course. An attempt is made to give a reasonably rounded view of those developments which are deemed most important in the period under consideration as a background for understanding other subjects in the fields of the humanities and the social sciences. With a variation of emphasis in each course, caused in part by the nature of the growth of civilization in the period and in part by the amount and the kind of historical evidence which has survived, attention is given to such phases of development as the politi-

cal, constitutional, social, economic, religious, and intellectual. History 11-12 is intended to be an introductory course, and, although it is not a prerequisite for the election of any other course in the Department, it is required for those who major in History.

The study of history provides a background against which current problems of internal and external policies may be viewed to advantage. It also helps to develop critical standards for the evaluation of evidence which can often be applied in forming opinion with regard to the solution of such problems. Finally, it is useful as a foundation for professional studies not only in history but also in such subjects as public administration, journalism and law.

Major Requirements

History 11-12 and four other full year courses (or three full year courses and two half year courses) in History; History 100.

Two full year courses or their equivalent in related departments.

Majors in History must take at least one year course in each of three of the following fields: 1) Ancient History, 2) Medieval European History, 3) Modern European History, 4) American History. There will be a written comprehensive examination of three hours in one of these fields, chosen by the student as his area of concentration, and written comprehensive examinations of ninety minutes each in two other fields, one of which may be East Asian History. Majors concentrating in Ancient History are required to have a competence in Latin or Greek; those in Medieval History in French or German; those in Modern European History in French or German.

Requirements for Honors

Students deemed qualified as Honors candidates will be expected to do reading in the summer before their Senior year on a list suggested by the Department. At the beginning of the Senior year they must pass a written examination on this reading with a grade of at least 85. During the Senior year each Honors candidate must enroll in a project course. Honors will be judged on the basis of performance on the comprehensive examinations and in the project course.

11-12. INTRODUCTION TO WESTERN CIVILIZATION—Mr. MacCaffrey and Mr. Spielman.

A study of Western European civilization from the fall of Rome to the present. The course will be concerned with the principal institutions and with the major intellectual currents in Western European history. Firsthand materials as well as secondary historical accounts will be the basis for conference discussion. Open to Freshmen and Sophomores only.

19-20. CLASSICAL CIVILIZATION: HISTORY AND LITERATURE—Mr. Kennedy. (Also called Classics 19-20.)

Study of the significant events and trends of ancient history and of works of Greek and Latin literature in English translation.

Offered in 1962-63 and alternate years.

23-24. MEDIEVAL HISTORY—Mr. MacCaffrey.

A survey of European development from the fall of Rome to about 1300. Occasional lectures, extensive reading, papers and discussion, with a final examination. Admission by permission of the instructor. A reading knowledge of French or German is required.

Offered in 1963-64 and alternate years.

25-26. MODERN EUROPEAN HISTORY—Mr. Spielman.

The main currents of European institutional developments from the French Revolution. Class discussion with occasional lectures, frequent papers. A reading knowledge of one modern European language is required.

27-28. AMERICAN HISTORY—Mr. Bronner.

A survey of American history from Colonial times to the present.

29. SEMINAR IN GREEK CIVILIZATION—Mr. Kennedy.

(Also called Classics 29.)

Reading in translation of extensive portions of the literary remains of one period of Greek civilization, together with a study of the history of the age. Seminar papers will offer opportunities to individual students to emphasize either literature or history. Topic for 1963-64: The Fifth Century.

Offered in 1963-64 and alternate years.

30. SEMINAR IN ROMAN CIVILIZATION—Mr. Kennedy.

(Also called Classics 30.)

Reading in translation of extensive portions of the literary remains of one period of Roman civilization, together with study of the history of the age. Seminar papers will offer opportunities to individual students to emphasize either literature or history. Topic for 1963-64: The Roman Republic and the Hellenistic East.

Offered in 1963-64 and alternate years.

33-34. THE POLITICAL AND CONSTITUTIONAL HISTORY OF MEDIEVAL ENGLAND—Mr. MacCaffrey.

A survey of British historical development from the coming of the Anglo-Saxons to the end of the Middle Ages. Although primarily political and constitutional, the course will include consideration of major economic and social trends as well. Extensive reading both in sources and secondary works will form the basis for conference discussion.

Offered in 1962-63 and alternate years.

35-36. THE POLITICAL AND CONSTITUTIONAL HISTORY OF MODERN BRITAIN—Mr. MacCaffrey.

A study of British history from the end of the Middle Ages, including economic, social, and intellectual development. Extensive reading with frequent papers and class discussion.

Offered in 1963-64 and alternate years.

37-38. MODERN HISTORY OF EAST ASIA—Mr. Borton.

A study of the international, political, social, and economic developments in Eastern Asia, from the early part of the 19th century to the present. Special emphasis will be given to a comparison of the processes of modernization of China, Korea, and Japan.

41-42. SEMINAR IN AMERICAN HISTORY—Mr. Dudden.

Selected readings and study projects in American social, economic, and intellectual history of the late 19th and early 20th centuries. Open to Juniors and Seniors who have had one year of American history, or with the consent of the instructor.

43-44. HISTORIOGRAPHY—Mr. MacCaffrey.

A study of major historians from classical times to the present, followed by a survey of historical theorists and schools of the last century. Reading, discussion, and papers. Open to Juniors and Seniors with permission of the instructor. Prerequisite: History 11-12.

Offered in 1962-63 and alternate years.

45-46. GERMANY AND CENTRAL EUROPE, 1500 TO THE PRESENT—Mr. Spielman.

The evolution of modern Germany from the Protestant Reformation to the present. Particular attention will be given to the historical background of modern political and ideological conflicts in Central Europe. Extensive reading and reports will be the basis for class discussion. A reading knowledge of German is required.

Offered in 1962-63 and alternate years.

47-48. THE FRENCH REVOLUTION AND NAPOLEONIC EUROPE—Mr. Spielman.

The Old Régime and French society before 1789, the course of the Revolution in France, its consequences for the rest of Europe and the Napoleonic Empire to 1815. Class discussion and papers based on readings in the sources and interpretive works. A reading knowledge of French is required.

Offered in 1963-64 and alternate years.

49-50. EUROPEAN THOUGHT AND LETTERS, 1100-1600—Mr. Thompson.

(Also called English 49-50.)

History of ideas in the later Middle Ages and Renaissance, with emphasis on the relations between literature and the philosophical and religious developments of the epoch.

Authors read include Abelard, Aquinas, Dante, Petrarch, Erasmus, More, Montaigne, Hooker, Bacon, and others. Students electing the course are expected to have some antecedent knowledge of European history and a reading knowledge of Latin or of a relevant modern language.

Offered in 1962-63 and alternate years.

81, 82. PROJECT COURSES IN HISTORY—Members of the Department.

History of Art

ASSOCIATE PROFESSOR JAMES FOWLE

INSTRUCTOR GERALD M. ACKERMAN

UNDER the co-operative arrangement between the Colleges, Haverford students who wish to take advanced courses in History of Art may do so at Bryn Mawr College.

21, 22. INTRODUCTION TO THE HISTORY OF ART—Mr. Fowle and Mr. Ackerman.

This course in the history of Western art from its beginnings in ancient Greece to modern times provides an introduction to the disciplines of art-history. It exercises the student's visual perception of works of art, encourages intelligent investigation of the means of artistic expression, and provides historical perspective for an understanding of the achievements of Western architects, sculptors, and painters. Assignments include short papers on original works of art in the Philadelphia area.

Mathematics

PROFESSOR CLETUS O. OAKLEY, *Chairman*

ASSISTANT PROFESSOR JAMES O. BROOKS

ASSISTANT PROFESSOR LOUIS SOLOMON

ASSISTANT PROFESSOR DALE H. HUSEMOLLER

INSTRUCTOR FRANK H. YOUNG

THE AIMS of courses in Mathematics are: (1) to promote rigorous thinking by exhibiting a systematic, deductive, intellectual discipline; (2) to present to the student the direction and scope of mathematical developments; (3) to foster technical competence in mathematics as an aid to the better comprehension of the physical, biological, and social sciences; and (4) to guide and direct the mathematics majors toward an interest in mathematical research.

The following sequences are open to qualified entering students: 11, 12, for non-specialists; 15, 16 for students in mathematics, the sciences, and economics. Students with the equivalent of one or two semesters of college calculus may be admitted to Mathematics 16 or more advanced courses on consent of the instructor.

The more advanced courses cover work in the fields of analysis, algebra, geometry, and statistics. The student majoring in the Department extends his studies into all of these areas; he may prepare for teaching in preparatory school, for graduate study leading to college teaching or research, or for statistical and actuarial work.

The sequence in analysis and algebra, Mathematics 21, 22, 31, 32, 33, 34, 63, 64, is especially suited to the needs of the physical sciences, while Mathematics 17 deals with those concepts of statistics and probability which are fundamental to the biological and social sciences.

Major Requirements

Mathematics 21, 22, 31, 32, 33, 34, 35, 36, 63, 100, and one additional semester course chosen from Mathematics 38, 42, 64, 81, 82.

Recommended collateral courses are Physics 13, 14, 15, 16, 41, 42; Astronomy 45, 46, or for prospective Actuaries, Economics 11, 12, 23.

Prescribed parallel reading on the history and general principles of mathematics.

Three written comprehensive examinations, each three hours in length.

It is recommended that facility in reading French and German be acquired early in the college course.

Requirements for Honors

A student may be awarded Honors in Mathematics on the basis of course work in Mathematics, performance on the comprehensive examinations, an additional oral examination, and general evidence of superior ability, initiative, and interest in the study of Mathematics.

11. FRESHMAN MATHEMATICS—Staff.

An introductory course designed to present the fundamental concepts of modern mathematics. Topics included are: logic and the nature of mathematical proof, the number system, groups, Boolean Algebra, relations and functions.

12. INTRODUCTION TO CALCULUS—Staff.

Introductory course in differential and integral calculus for non-specialists. Prerequisite: Mathematics 11.

15, 16. CALCULUS—Staff.

Open to entering freshmen. Designed for students in Astronomy, Chemistry, Economics, Engineering, Mathematics, and Physics. Prerequisite for Mathematics 16: Mathematics 15 or consent of the instructor.

17. INTRODUCTION TO STATISTICS—Mr. Oakley.

This course is designed for students in the social and biological sciences. Tabular and graphic methods, frequency distributions, measures of central tendency, dispersion and correlation, tests of significance, probability and classical distributions, sampling. Lectures and computing laboratory. Prerequisite: Mathematics 12 or 16 or consent of the instructor.

21. CALCULUS—Staff.

Infinite series, partial derivatives, multiple integrals, elementary differential equations. Prerequisite: Mathematics 16 or consent of the instructor.

22. LINEAR ALGEBRA—Mr. Husemoller.

Finite dimensional vector spaces and their linear transformations. Applications to the theory of matrices, coordinate geometry, and linear differential equations. Prerequisite: Mathematics 21.

31. ADVANCED CALCULUS—Mr. Brooks.

Jacobians and the implicit function theorem, curves and surfaces, differential forms, theorems of Green, Gauss and Stokes. Prerequisite: Mathematics 21, 22.

32. ADVANCED CALCULUS—Mr. Brooks.

Infinite series and integrals, Fourier series with applications to partial differential equations, the gamma function. Prerequisite: Mathematics 31.

33, 34. MODERN ALGEBRA—Mr. Husemoller.

Topics will be drawn from field theory, ideal theory of commutative rings, group theory, structure of rings. Examples to illustrate the theory will be drawn from Mathematics 22. Prerequisite: Mathematics 22.

Offered in 1962-63 and alternate years.

35, 36. MODERN GEOMETRY

Topics will be selected from one or two of the following: algebraic topology, differential topology, projective geometry, algebraic geometry. Prerequisite: Mathematics 22.

Offered in 1963-64 and alternate years.

38. MATHEMATICAL STATISTICS—Mr. Oakley.

Probability theory and its applications to statistics. Prerequisite: Mathematics 22. Offered in 1963-64 and alternate years.

42. BOUNDARY VALUE PROBLEMS OF MATHEMATICAL PHYSICS—Mr. Green.

(Also called Physics 42.)

Orthogonal functions, perturbation theory, the calculus of variations (integral transforms), and iterative procedures are employed to solve boundary value problems expressed in the form of differential or integral equations. Such functions as Legendre, associated Legendre, Bessel, hypergeometric, and confluent hypergeometric are employed. Attention is given to numerical and machine methods. An introduction to Sturm-Liouville theory and Hilbert space is presented. Examples are chosen from such fields as heat conduction, classical and quantum mechanics, acoustics, aerodynamics, electromagnetic theory, and radiative transfer. Prerequisite: Mathematics 31; Physics 13, 14.

Not offered in 1962-63.

63. ANALYSIS

Complex function theory. Prerequisite: Mathematics 31, 32.

64. ANALYSIS

Topics in analysis will be selected from one or two of the following: complex function theory, measure and integration, normed linear spaces, point set topology. Prerequisite: Mathematics 63.

81 or 82. SPECIAL TOPICS—Philips visitors and members of the Department.

Project courses involving wide reading in the literature, and presentation of papers for group discussion. The content varies from year to year to suit the needs of advanced students. The course may be repeated for credit with change of content.

Music

PROFESSOR WILLIAM H. REESE, *Chairman*

ASSISTANT PROFESSOR JOHN H. DAVISON

THE COURSES offered in Music have as their objectives (1) the mastery of music materials and theory through the disciplines of counterpoint, harmony, and analysis, and subsequently (2) the stimulation of the creative energies of the student through musical composition, (3) a knowledge of the styles and literature of a great art with its interrelation of trends, influences, aesthetic principles, personalities and creative processes in musical creation over the centuries and (4) the development of perceptive listening and refined hearing

in connection with the aims stated above. The furthering and strengthening of the disciplines of music and of music history is of value both to the general student and to the student with specialized musical interest and talent. For the latter, instruction in instrument or voice can be arranged, but without the granting of academic credit. Advanced and specialized work in musicology is available in the form of supplementary courses at the neighboring colleges and university. At Haverford the program seeks in part to stimulate free composition in the vocal and instrumental forms with a view to public performance of a successfully completed work.

Major Requirements

A rounded course of study of music includes (1) work in theory, possibly embracing composition, (2) the study of music history, and (3) direct expression in music through the medium of instrument or voice. The music major will work in both academic fields of theory and history, specializing in one of them.

Required courses: For specialization in music theory and composition: Music 11 or 12, 13-14, 23, 24, 31 or 32, 33, 81, 82, 100. For specialization in music history: Music 11 or 12, 13-14, 23 or 24, 31, 32, 81, 82, 100.

Supporting courses are to be arranged in such related fields as the humanities, history, language, and history of art as may be approved by the department.

In addition the music major is expected to reveal a proficiency and interest in instrumental playing and/or choral singing to the degree of participating actively in public performances from time to time during his college career. This will assure his having a direct experience with the living practice of a creative art.

The comprehensive examination for majors will consist of:

For those specializing in music theory and composition: (1) the completion by the candidate of a musical composition for instruments or voices in one of the larger forms, (2) an examination in music history, (3) a small composition, theoretical analysis and exercises to be completed during the examination period.

For those specializing in music history: (1) an examination in music history, (2) analysis of a work and other exercises involving theoretical musical knowledge, (3) the completion of a paper on an assigned subject in music history.

Requirements for Honors

The Honors candidate must perform satisfactorily in all required courses for music majors, and submit (a) in the case of specialization in composition, an orchestral composition of considerable stature showing creative talent as well as technical craftsmanship, and hence worthy of a public performance, or (b) in the case of specialization in music history, a successfully completed project in musicological research, demonstrating mastery of the tools of musicological research and involving original thought, and showing ability in the creative interpretation of assorted materials bearing on a specific subject.

11. INTRODUCTION TO MUSIC HISTORY—Mr. Reese.
A study of the principal forms of musical literature of the 17th, 18th, and 19th centuries. No previous knowledge of music is required.
12. SURVEY OF MUSIC HISTORY—Mr. Davison.
A historical survey of the development of musical thought from the plainsong era to contemporary idioms. This course complements Music 11, but may be taken without it. No prerequisite.
- 13-14. ELEMENTARY MUSIC THEORY—Mr. Davison.
The basic materials of music—melody, scales, intervals, chords, meter and rhythm. Counterpoint in two and three parts and harmony in four parts will be studied and implemented by ear-training, dictation, and sight-singing. Previous instruction or experience in some aspect of music is desirable.
- 23, 24. ADVANCED THEORY AND COMPOSITION—Mr. Davison.
A continuation of Music 13-14, involving ear-training, keyboard harmony, sight-singing, analysis, and composition, along with an introductory study of strict counterpoint as exemplified in the vocal style of the sixteenth century. In the second semester pieces are written in the eighteenth-century forms of the chorale-prelude, fugue, suite, and sonatina. Successful student compositions will be performed at demonstration concerts. Prerequisite: Music 13-14 or the equivalent.
- 31, 32. SEMINARS IN MUSIC HISTORY—Mr. Reese.
The detailed study of certain epochs in music history or of the works of individual composers having special significance in the history of music. The content of Music 31, 32 will be altered from year to year so that a diversity of subject matter will be available. It may be repeated, for credit, with change of content. Prerequisite: Music 11 or 12 or the equivalent.
Topics for 1962-1963. Music 31. The life and music of Beethoven—Mr. Reese.
Music 32. The music dramas of Richard Wagner—Mr. Reese.
33. SEMINAR IN MUSICAL COMPOSITION—Mr. Davison.
Continuation of composition in small forms, with emphasis on the contemporary musical language. Representative twentieth century pieces will be discussed and analyzed, and the student will, in his own compositions, explore such areas of style and technique as modality, synthetic scales, secundal and quartal harmony, total chromaticism, irregular meter, and jazz harmony. Prerequisite: Music 24 or the equivalent.
- 81, 82. PROJECTS IN MUSIC—Mr. Reese and Mr. Davison.

Philosophy

PROFESSOR DOUGLAS V. STEERE, *Chairman*

PROFESSOR FRANCIS H. PARKER

ASSOCIATE PROFESSOR PAUL J. R. DESJARDINS

ASSISTANT PROFESSOR LOUIS ARYEH KOSMAN

LECTURER HENRY J. CADBURY

THE COURSES in Philosophy are intended first of all to acquaint students with the major currents of interpretation and reflection upon the recurring problems, such as the nature of man, the nature of the universe, the nature of the processes by which man apprehends and responds to that universe. Since these problems underlie the work of literature and furnish it with many of its most basic themes; since they underlie the presuppositions of political, sociological, and economic thought; since they reappear in the frame in which every thoughtful scientist works and affect not only the use to which his results will be put, but his very method, just as his methods have influenced in turn the formulation of the problems, the study of philosophy is an important tool in connection with work in any of these fields.

In the second place the courses in philosophy are designed to assist in integrating material presented in literature, history, the social and natural sciences, in art, and in religion in order to assist the student in drawing together what he has learned, and in approaching a more responsible, intentional, and intelligent world view with which to confront life.

The courses are so planned as to require such orientation as would be secured in either Philosophy 11 (which examines in an elementary way the great problems man confronts) or Philosophy 21-22 (which deals with these same problems as it presents the great classical philosophical thinkers chronologically) before proceeding to the more specialized philosophical disciplines such as ethics, aesthetics, logic, political philosophy, philosophy of science, philosophy of religion, and to more specialized studies of certain philosophical thinkers.

Major Requirements

Philosophy 12, 21-22, 63-64 and four other half-year courses in Philosophy. Philosophy 100.

Four half-year courses in related fields to be arranged in conference with the Major Supervisor.

A comprehensive examination in two parts; three hours on the history of philosophy and three hours on one optional field selected from topics in philosophy since 1800, or religious thought.

Requirements for Honors

Honors in Philosophy are awarded for a prearranged special study of the works of some major philosopher or work on a major philosophical problem. The usual method of testing such study is by a three hour written examination and an oral examination, but a thesis may be presented in place of the written examination. Honors will not be given unless the candidate has an average of 85 or better in the regular comprehensive examination in Philosophy, and High Honors require a minimum grade of 90.

11. INTRODUCTION TO PHILOSOPHY—Mr. Steere, Mr. Desjardins, and Mr. Kosman.
An understanding of the nature and functions of philosophy and its relations to other fundamental human interests such as science, religion, and art is sought through a consideration of representative philosophical problems.
12. ETHICS
A study of (1) conflicts of ethical values involved in contemporary life; (2) certain classical ethical devices for resolving those conflicts; (3) the role of the individual and of the group in the realization of ethical values. Case material drawn from contemporary situations and from literature will be widely used. Discussions, lectures, and papers. Prerequisite: One semester-course in Philosophy.
14. LOGIC—Mr. Kosman.
The principles of valid inference and their application to reasoning in everyday life, and in the sciences; the syllogism and other types of formal reasoning, the nature of proof, the detection of fallacies; introduction to the logic of scientific methods and to contemporary developments in symbolic logic.
- 21-22. HISTORY OF PHILOSOPHY—Mr. Steere, Mr. Desjardins, and Mr. Kosman.
A study of the development of philosophy with special reference to Plato, Aristotle, Descartes, Locke, Berkeley, Hume, Spinoza, Leibnitz, Kant, and Hegel. First-hand acquaintance with selected writings of these philosophers; reports, lectures, and class discussions.
23. CLASSICS OF RELIGIOUS LITERATURE—Mr. Steere.
A study which will include such books as Augustine, *Confessions*; Benedict's *Rule*; Meister Eckhart, *Sermons*; *Little Flowers* of St. Francis of Assisi; Thomas à Kempis, *Imitation of Christ*; Francis de Sales, *Introduction to the Devout Life*; Pascal, *Thoughts*; John Woolman, *Journal*; Soren Kierkegaard, *Purity of Heart*; von Hügel, *Letters*; Bernanos, *Diary of a Country Priest*; Kelly, *Testament of Devotion*; Simone Weil, *Waiting on God*; Traherne, *Centuries of Meditation*.
Offered in 1962-63 and alternate years.
24. HISTORY AND PHILOSOPHY OF QUAKERISM—Mr. H. J. Cadbury.
The Quaker Movement is studied in relation to other intellectual and religious movements of its time, and in relation to problems of social reform. The development of the dominant Quaker conception is traced to the present day and critically examined. The course is designed for non-Friends as well as for Friends. Not open to Freshmen.
25. AESTHETICS—Mr. Desjardins.
A study of the philosophical principles underlying the creative and appreciative aspects of art. Admission with permission of the instructor.
Not offered in 1962-63.
28. PHILOSOPHY OF RELIGION—Mr. Steere.
(Also called Religion 28.)
A study of the basic problems which the practice and claims of religion present to a reflective mind. Prerequisite: Philosophy 11 or 21-22.
Offered in 1962-63 and alternate years.
29. RELIGIOUS IDEAS IN MODERN CULTURE—Mr. Spiegler.
(See Religion 29.)

31. MODERN ANALYTIC PHILOSOPHY—Mr. Kosman.
A study of the historical and theoretical development of analytic philosophy in England and America. Selected writings of Russell, Wittgenstein, Moore, Ayer, Wisdom, and others, with special emphasis on theory of language. Prerequisite: Philosophy 21-22.
32. SEMINAR IN HISTORICAL AND PHILOSOPHICAL THEOLOGY—Mr. Spiegler.
(See Religion 32.)
33. NINETEENTH CENTURY THINKERS—Mr. Steere.
Selected writings of Schopenhauer, Nietzsche, Tolstoy, and Bergson. Prerequisite: Philosophy 11 or 21-22.
34. RECENT AND CONTEMPORARY PHILOSOPHICAL PROBLEMS—Mr. Kosman.
A study of recent and contemporary treatments of philosophical problems in Europe and America. In 1962-63 the course will examine some of the basic problems concerning empirical knowledge, and their relation to the philosophical theory of perception. Prerequisite: Philosophy 21-22.
36. HISTORY AND PHILOSOPHY OF SCIENCE—Mr. Green.
(See Physical Science 36 under General Courses.)
Not offered in 1962-63.
37. PLATO—Mr. Desjardins.
A study of a selected group of the dialogues. Prerequisite: Philosophy 21 or consent of the instructor.
Offered in 1963-64 and alternate years.
38. ARISTOTLE
A study of a selection of the primary works of Aristotle. Prerequisite: Philosophy 21 or consent of the instructor.
Offered in 1962-63 and alternate years.
40. KANT—Mr. Desjardins.
A study of the primary texts with special emphasis on the First and Third Critiques. Prerequisite: Philosophy 22 or consent of the instructor.
Not offered in 1962-63.
- 63-64. PHILOSOPHICAL SEMINAR—Mr. Desjardins and Mr. Steere.
Specialized work in some restricted field of philosophic or religious thought is undertaken, the precise subject depending upon the needs of the students and the general interests of the group. Primarily designed for Seniors majoring in Philosophy and for Graduate students. Prerequisite: Philosophy 21-22; Majors unless by special arrangement. Limited to ten students.
- 81, 82. PROJECT COURSES—Individual consultation; supervised independent reading and research. Mr. Steere, Mr. Desjardins, and Mr. Kosman.

Physical Education

PROFESSOR ROY E. RANDALL, *Chairman*

PROFESSOR WILLIAM DOCHERTY, JR.

ASSISTANT PROFESSOR ERNEST J. PRUDENTE

COURSES in Physical Education are arranged in accordance with the plan for all-year physical training in the Freshman, Sophomore, and Junior years. The aim of this plan is to make possible active participation in athletics for the majority of students at Haverford College, with emphasis on the sports with carry-over value. Each student is required to take, during his first three years, nine terms (fall, winter, spring) of Physical Education. However, one course in the Arts and Service program (see pp. 103-105) may be substituted for Physical Education during the Sophomore year, and two courses during the Junior year.

The intercollegiate program consists of varsity and sub-varsity schedules in 13 sports: Football, Soccer, Cross Country, Basketball, Fencing, Swimming, Wrestling, Cricket, Baseball, Track, Golf, Tennis and Sailing. Participation in these activities may be substituted for the Physical Education requirement.

Evidence of satisfactory physical condition is required by the department before a student is permitted to participate in any aspect of the program. A swimming test is given to all entering students. This test must be passed by all students before graduation. Swimming instruction is given in the gymnasium pool during the fall and spring.

The outdoor facilities include: Walton Field for football and track, with a 440-yard oval and a 220-yard eight lane straight-away cinder track; the Class of 1888 and Merion Fields for soccer, both of which are used for baseball and softball in the spring; a skating pond; Cope Field for cricket; an athletic field presented by the Class of 1916; a baseball field presented by the Class of 1922, used also for soccer in the fall; and thirteen tennis courts, three of which are all-weather. There are two dinghies available during the spring and fall for those (with certain exceptions) who wish to sail.

Indoor facilities include the Gymnasium and Alumni Field House. The basement of the gymnasium contains dressing rooms, showers, lockers, a swimming pool, wrestling room and training room. Through the generosity of the Class of 1928 it has been possible to provide additional locker and dressing facilities, a new stock room, and a laundry and drying room. A regulation basketball court is on the main floor, with hand ball and badminton courts. On the upper floors are dressing facilities for officials and instructors, and department offices.

Alumni Field House, donated by Alumni and friends of the College, became available in 1957 and provides ideal facilities for the further development of the Athletic program. This "indoor playing field" includes a 7-lap track, with areas for field events, a dirt area 120' by 120' for outdoor events under cover, a batting cage for baseball and cricket, nets for golf, a wooden area 120' by 120' with two basketball courts, two tennis courts, and seating capacity for 1000 spectators.

Physics

ASSOCIATE PROFESSOR WILLIAM C. DAVIDON, *Chairman*

PROFESSOR FAY AJZENBERG-SELOVE

ASSISTANT PROFESSOR CHARLES H. HOLBROW

LECTURER THOMAS A. BENHAM

OUR PHYSICS CURRICULUM acquaints students with the physical universe, introduces them to the concepts and theories which are now fundamental in science, and provides them an opportunity for firsthand experimental investigations. For the student with professional aims in science, the Department offers a program of study which leads to a strong major in physics, providing sound preparation for graduate work.

Students of astronomy, biology, chemistry, mathematics and other disciplines will find the general physics course, Physics 13, 14, valuable preparation for their subsequent work. Physics 13, 14 is ordinarily taken in the Sophomore year by those not intending to major in physics, after completion of freshman mathematics. However, students who plan to major in physics are advised to take Physics 13, 14 in their Freshman year. Individuals with a strong background in high school physics and mathematics and who plan to continue with additional work in physics may arrange to omit Physics 13, 14, and begin directly with Physics 15, 16.

In its program of studies for physics majors, the Department desires to stimulate a maximum of independent thought and initiative consistent with a thorough development of understanding; to this end, a sequence of three two-semester courses is provided, consisting successively of mechanics, electromagnetism, and atomic and nuclear physics. In addition, a year of course work and a year of individual research, Physics 81, 82, is completed at a senior level. Physics 81, 82 offers opportunity to conduct an extended individual investigation with training in the mastery of theory and experiment, and with emphasis upon independent work and the ability to express oneself clearly both orally and in writing on the subject of investigation. Physics 81, 82 is not, however, limited to students majoring in Physics; it may be elected by others after consultation.

Major Requirements

Physics 15, 16; 23, 24; 31, 32; 81, 82; 100; two additional semester courses in Physics, selected from Physics 41, 42, 43, 46, 47, 48; and Mathematics through differential equations. It is strongly recommended that majors take two courses selected from the fields of astronomy, biology and chemistry.

A written comprehensive examination on physics treated as a unified discipline, designed to test each individual's ability to correlate his knowledge.

Students who desire to combine a Major in Physics with advanced work in a related department may do so by arranging an interdepartmental major, as provided for on page 40.

Requirements for Honors

The granting of Honors in Physics will be based upon excellence (an average of 85 or better) in course work, the quality of performance in the Senior project course (Physics 81, 82), the results of an oral examination on the thesis and related topics in Physics 82, and the comprehensive examinations (Physics 100). High honors in Physics will be awarded only to those majors who have performed in a superior fashion in meeting all of these requirements.

- 13, 14. GENERAL PHYSICS—*Four hours, including one laboratory period a week.*
Mr. Holbrow.

An introduction to the fundamental concepts of mechanics, wave motion, heat, electricity and magnetism, and quantum phenomena; Freshmen are admitted only with consent of the instructor. Algebra and trigonometry are essential, and some familiarity with calculus is useful. Prerequisite: Mathematics 11, 12 or concurrently 15, 16, or consent of the instructor.

- 15, 16. MECHANICS—Mr. Davidon and Mrs. Selove.

Analysis of the motion of particles and rigid bodies, with emphasis on those conserved quantities common to all physical systems, classical, quantum, and relativistic; consideration of systems in or near equilibrium, using the first and second laws of thermodynamics, and the theory of small oscillations; applications of vectors, linear algebras, and calculus. Prerequisite: Physics 13, 14, or consent of the instructor.

- 23, 24. ELECTROMAGNETISM—*Four hours, including one laboratory period a week.*
Mr. Benham.

A course of lectures, readings, and laboratory experiments designed to familiarize the student with precision electrical measurements. Solutions of electrostatic problems and magnetic circuits, linear circuits (D.C., A.C., and transient phenomena); properties of radiation throughout the electromagnetic spectrum; introduction to Maxwell's Equations; phenomena of interference, diffraction, polarization; phenomena of reflection, refraction, absorption. Prerequisite: Physics 15, 16, or consent of the instructor.

- 31, 32. ATOMIC AND NUCLEAR PHYSICS—*Four hours, including one laboratory period a week.* Mrs. Selove.

Fundamental concepts and constants of the microscopic domain; atomic and nuclear spectroscopy; nuclear and elementary particle reactions; introduction to physical concepts and mathematical methods of quantum mechanics. Prerequisite: Physics 15, 16, or consent of the instructor.

In 1962-63, offered as Physics 32 only.

41. GENERAL RELATIVITY AND COSMOLOGY—Mr. Green.

(Also called Astronomy 41.)

The tensor calculus is developed and applied to a discussion of general relativity and cosmology. The observational and experimental evidence supporting general relativity is reviewed, and the present state of the evidence favoring expanding and steady state universes is considered. Prerequisite: Mathematics 21 and Physics 15, 16. Offered in 1963-64 and alternate years.

42. BOUNDARY VALUE PROBLEMS OF MATHEMATICAL PHYSICS—Mr. Green.

(Also called Mathematics 42.)

Orthogonal functions, perturbation theory, the calculus of variations (integral transforms), and iterative procedures are employed to solve boundary value problems expressed in the form of differential or integral equations. Such functions as Legendre, associated Legendre, Bessel, hypergeometric, and confluent hypergeometric are employed. Attention is given to numerical and machine methods. An introduction to Sturm-Liouville theory and Hilbert space is presented. Examples are chosen from such fields as heat conduction, classical and quantum mechanics, acoustics, aerodynamics, electromagnetic theory, and radiative transfer. Prerequisite: Mathematics 31; Physics 13, 14.

Offered in 1963-64 and alternate years.

43, 44. ELECTRONICS—*Four hours, including one laboratory period a week.* Mr. Benham.

Analysis of circuits for rectification, linear amplification; advanced linear circuit theory; instrumentation—coincidence circuits, pulse height analysis; scaling and computer circuitry. Laboratory experiments are designed to give the student experience in the relation of theory and practice. Prerequisite: Physics 23, 24, or consent of the instructor.

45. ADVANCED CLASSICAL MECHANICS—Mr. Green.

(See Astronomy 45.)

Not offered in 1962-63.

46. SOLID STATE PHYSICS—*Four hours, including one laboratory period a week.*

Crystal structure; properties of metals; electrical and magnetic properties of materials; semi-conductors; applications of nuclear magnetic resonance, masers, etc. Prerequisite: Physics 23, 24, 31, 32.

Offered in 1962-63 and alternate years.

47. THERMODYNAMICS AND STATISTICAL MECHANICS—Mr. Davidon.

Equations of state and the laws of thermodynamics; applications of thermodynamic concepts; statistical consideration in mechanical and electrical systems; kinetic theory of gases. Prerequisite: Physics 15, 16, or consent of the instructor.

48. FOUNDATIONS OF MODERN PHYSICS

Space time structure, symmetries of physical systems; elementary scattering theory; interpretation of quantum mechanics; applications of modern mathematics.

Offered in 1963-64 and alternate years.

81, 82. PHYSICS SEMINAR—Members of the Department.

Individual work in selected fields of investigation. Each student pursues comprehensive reading and sustained experimental work on a problem. Meetings are held with the members of the Department to discuss the progress in each field of investigation. Each student becomes familiar with problems other than his own

and gains experience in presenting his work. Students who major in Physics are expected to take two semesters, but the course is not restricted to Major students. Qualified Juniors or Seniors may, by permission, elect either one semester or two. Also, the course may be repeated for credit with change of content. The granting of Honors depends heavily upon performance in this course.

Political Science

PROFESSOR HERMAN M. SOMERS, *Chairman*

ASSOCIATE PROFESSOR ALFRED DIAMANT, *Acting Chairman*

ASSISTANT PROFESSOR HARVEY GLICKMAN

VISITING ASSISTANT PROFESSOR JOHN SPANIER

THE POLITICAL SCIENCE CURRICULUM is designed to give students an understanding of political organization and political forces in modern society, to provide knowledge and a basis for insight and judgment on the problems involved in the relationship of the individual to government and of governments to one another. The broad areas of study include: analysis of political theory in relation to its institutional environment; comparison and appraisal of different types of governments and political organization; American political institutions; and problems of international relations.

The tools of analysis include theory and experience. The purposes and the actual workings of political institutions and political groups are appraised. In advanced courses, emphasis is placed upon individual research and analysis—practice in location, organization, and presentation of data, and independent judgment.

The courses are designed primarily for a liberal arts education and are intended to create intelligent and lasting interest and participation in the formulation of public policy. The training will also serve the practical needs of those men contemplating professional careers which involve an understanding of modern government, such as law, journalism, and the public service.

Men majoring in political science are expected to understand the relationship of this field to other social studies and also the purposes and methods of the social sciences as a whole. They are thus expected to take supporting courses in economics, history, and sociology.

Major Requirements

Political Science 11, 12, and eight other courses in Political Science distributed among the areas of study indicated above.

Four approved semester courses in other social sciences.

A comprehensive examination covering the major fields of study. The comprehensive examination includes seminar participation.

Requirements for Honors

Candidates for Honors are required to submit a thesis of independent research or original theoretical analysis, and to pass an oral examination on the thesis as well as on general attainment in the field. The award of Honors will be determined on the basis of the thesis, the oral examination, quality of course work, and performance in the Senior comprehensive seminar and examinations. The thesis may obtain course credit by registration in Political Science 81 or 82.

11, 12. **FREEDOM AND CONTROL: Theory and Practice of Modern Government—Staff.**

A comparative analysis of selected foreign and American political institutions and policies with reference to their theoretical foundations. The first semester concentrates on the development of main currents of western political thought, studied primarily through the original works of theorists who had major influence in shaping modern ideas and practice. Particular attention is given to the central issue of reconciling individual freedom with social control. The second semester examines the issues by comparing structure, administration, and policy in several countries.

23. **AMERICAN CONSTITUTIONAL DEVELOPMENT**

A study of the development of the American constitution through judicial interpretation, related to the changing political, social and economic problems of the United States. Definitive Supreme Court cases shaping the course of American development will serve as the primary basis of study. Prerequisite: Political Science 11, 12.

Offered in 1962-63 and alternate years.

26. **COMPARATIVE GOVERNMENT—Mr. Diamant.**

An advanced, functional analysis of the political, social and economic institutions of contemporary European governments and the British Commonwealth. Emphasis is placed on the changing role of government in society, on the political and economic forms that have been developed to meet new needs, and on the impact of these new developments on traditional political theory. Prerequisite: Political Science 11, 12.

27. **AMERICAN POLITICAL THOUGHT—Mr. Diamant.**

An approach to understanding the enduring significance of the American heritage through the study of outstanding political and social writings. Prerequisite: Political Science 11, 12.

Offered in 1963-64 and alternate years.

31. **PARTIES, PRESSURES, AND PUBLIC OPINION**

A study of political parties, their organization and techniques, as an instrument of democratic government; the relationship of private associations and interest groups to the party system; the role of such associations in a democracy; and the struggle for power with relation to public opinion and theories of the public interest. Prerequisite: Political Science 11, 12.

32. **POLITICAL BEHAVIOR—Mr. Glickman.**

A study of the role of personality, culture, mass media of communication, leader-

ship, voting behavior, and organizational influences upon political life. Prerequisite: Political Science 11, 12.
Not offered in 1962-63.

34. SOCIAL WELFARE AND PUBLIC POLICY—Mr. Somers.

(Also called Economics 34 and Sociology 34.)

A study of the economic and political problems encountered in attempts to cope with the hazards of modern industrial society, including unemployment, disability, illness, and old age. Primary attention is given to the American social security system. Alternative methods of prevention and alleviation, and their economic and social consequences, are examined. Prerequisite: Either Political Science 12, Economics 11 or Sociology 11.

Offered in 1963-64 and alternate years.

37. GOVERNMENT AND BUSINESS

(See Economics 37. Industrial Structure and Market Behavior.)

38. GOVERNMENT ADMINISTRATION AND PUBLIC POLICY

A study of administration as a central element of contemporary society with special reference to the problems involved in the decision-making process; administrative theory and process in relation to the formulation and execution of public policy. The approach is analytical rather than descriptive and is based, in large measure, on case studies. Prerequisite: Political Science 11, 12.

Offered in 1962-63 and alternate years.

39, 40. INTERNATIONAL RELATIONS: POLITICAL AND ECONOMIC—Mr. Spanier, Mr. Bell.

An examination of human, material, and cultural factors and their interconnection in the making of national goals and national strategies in the setting of the world community. Concentration on major international developments since 1918, including analysis of selected problems, such as economic developments, stabilization of trade and payments, arms control, settlement of disputes. Individual or group research projects required. The first term focuses on political analysis, the second term on economic analysis. Prerequisite: Political Science 11, 12 and Economics 11, 12, or permission of the instructor.

41. POLITICS AND GOVERNMENT IN DEVELOPING AREAS—Mr. Glickman.

A study of political ideologies, processes and institutions in selected areas of Africa, Asia, Latin America and the Middle East. The impact of the West on traditional societies, the growth and effect of nationalism, and the problems of stability and popular government are emphasized. Prerequisite: Political Science 11, 12.

Not offered in 1962-63.

43. THE SOVIET SYSTEM—Mr. Hunter.

(See Economics 43.)

Not offered in 1962-63.

46a. AMERICAN FOREIGN POLICY—Mr. Spanier.

A survey of the evolution of contemporary American foreign policy interests and critical analysis of the forces which shape policy. Emphasis is placed on research papers treating specific areas or issues. Prerequisite: Political Science 12.

49. METROPOLITAN AND STATE POLITICS—Mr. Diamant.
An analysis of the political and administrative issues arising out of the changing character of community government. Problems of obsolete political boundaries, the development of independent multi-governmental authorities, the proliferation of quasi-governmental units, and the expanding conflicts and shifting relations of local, state and federal governments are examined. Seminar. Limited enrollment. Prerequisite: Political Science 11, 12.
Offered in 1962-63 and alternate years.
56. INTERNATIONAL ORGANIZATION—Mr. Spanier.
An analysis of the development of international institutions and their role in security and social economic fields. Particular attention is given to case studies in United Nations operations and consideration is given to proposals for regional and world government. Prerequisite: Political Science 11, 12.
64. MODERN POLITICAL THEORY—Mr. Diamant.
A study of leading political doctrines which have had a major influence in shaping the issues and conflicts of the modern world. Prerequisite: one year of Political Science, Economics, or Sociology.
- 81, 82. INDEPENDENT PROJECT COURSES—*Individual consultation; supervised independent reading and research.* Members of the Department.
Research papers and oral reports on special topics based upon the individual interests of advanced students. Enrollment only by permission of the instructor. Theses of candidates for Honors may be written for credit in this course. May be taken as semester or year course by arrangement with the instructor.

Psychology

ASSOCIATE PROFESSOR DOUGLAS H. HEATH, *Chairman*

ASSOCIATE PROFESSOR GEORGE A. HEISE

ASSISTANT PROFESSOR SYDNEY I. PERLOE

THE PSYCHOLOGY PROGRAM is designed to give the student an understanding of the empirical approach to the study of human behavior, a knowledge of the psychological principles which have emerged from empirical research, and an acquaintance with the problems to which contemporary research is directed. The student is encouraged to make active use of his knowledge in two ways: first, by developing through laboratory courses a working familiarity with the experimental method as applied in psychology, ordinarily culminating in an individual research project in the junior or senior year; second, by attempting to apply known psychological principles to an understanding of the behavior of individuals and groups in all areas of human endeavor.

Major Requirements

A major program in Psychology consists of two parts: 1) Core program in Psychology. Normally, such a program will include Psychology 11, 12, 14 or 25, 16, 21, 38, and 100a. 2) Concentration program within Psychology. Each student will develop a Concentration

program of five or more courses organized around advanced psychology courses, including the Senior Seminar, Psychology 62, and meaningfully related courses in either the Humanities, the Social Sciences, or the Natural Sciences.

Students contemplating a Psychology major are advised to complete at least one or two semester courses beyond the introductory course by the end of the sophomore year and the basic laboratory work by the end of the junior year. The core program courses must be completed by the end of the first semester of the senior year.

The comprehensive examination will be taken at the end of the first semester of the senior year and will cover the work in the core program.

Requirements for Honors

The award of Departmental Honors signifies that a student has maintained a consistently high standard of performance in the work of both parts of his major program, and has done distinguished work on an independent empirical research project, the comprehensive examination, and the Senior Seminar integrative paper. Honors candidates should plan to take Psychology 51 and 52 during their senior year.

11. INTRODUCTORY PSYCHOLOGY—Messrs. Heath, Heise, and Perloe.

The course is organized around three units: psychodynamics, social psychology, and learning. The principles and methods appropriate to each unit will be explored by means of an intensive analysis of selected topics within that unit. Students will be introduced to case material, laboratory experiments and demonstrations, test and questionnaire procedures, and methods of data analysis. A limited independent project may be required.

12. SOCIAL PSYCHOLOGY—Mr. Perloe.

(Also called Sociology 12.)

A consideration of the individual aspects of social behavior. Initially, attention will be focussed on the way individuals perceive and interpret social situations. The following topics will then be examined: the motivational determinants of group membership and social conformity, the psychological aspects of social conflict, and the effects of culture and social structure on personality. Prerequisite: Psychology 11 or Sociology 11 or permission of the instructor.

14. LEARNING—*Three class hours and laboratory.* Mr. Heise.

The course will be concerned primarily with human learning, although experimental findings and concepts from animal studies will be introduced as required. Topics will be treated in order of increasing complexity: human classical and operant conditioning, verbal and serial learning, transfer and forgetting, problem-solving, thinking and language behavior. Other topics include: current studies on the physiological basis of learning, and applications of laboratory findings and technology to education and child training. Prerequisite: Psychology 11.

16. THEORIES OF PERSONALITY—Mr. Heath.

Although the course will cover the major personality theorists, it will go most intensively into Freudian and existentialist personality theory as it is now being elaborated by Carl Rogers, Rollo May, and others. Other theorists such as Jung, the neo-analysts, and the proponents of a trait approach to personality will also be discussed. Wherever possible, reading will be in original sources. Class discussion

and research report papers will concentrate on clarifying and evaluating the merits of the different theories. Prerequisite: Psychology 11.

In 1962-63 only, offered also in the first semester as Psychology 16a.

21. PERCEPTION AND JUDGMENT—*Three class hours and laboratory.* Mr. Perloe. Analysis of the major theoretical positions and relevant research in perception and judgment. In addition to discussions on the traditional topics of form and space perception, perceptual learning, perceptual constancies and the effects of frames of reference on judgment; attention will be given to the effects of motives, values and personality upon perception. Prerequisite: Psychology 11.

- 23b. DEVELOPMENTAL PSYCHOLOGY—Mr. Heath.

The course will be organized around the major developmental problems of childhood, adolescence and the adult, and the types of controls used to master these problems. Emphasis will be placed on Piaget's and the ego psychologists' theories of child development. Consideration will also be given to the psychological aspects of identity, marriage, religion, old age, and death. Prerequisite: Psychology 16 and the consent of the instructor.

25. ANALYSIS OF ANIMAL BEHAVIOR—*Three class hours and laboratory.* Mr. Heise.

The course covers basic behavioral processes and problems that can be brought under experimental control and studied systematically at the animal level. These include: appetitive conditioning and primary and secondary reinforcement, temporal and stimulus discrimination, response differentiation and patterning, effects of various types of reinforcement schedules, aversive conditioning, motivational factors, etc. In the laboratory, these processes and problems will be studied with the aid of automatic programming equipment. Prerequisite: Psychology 11.

32. COMMUNICATION, PROPAGANDA AND ATTITUDE CHANGE—Mr. Perloe.

(Also called Sociology 32.)

A detailed coverage of recent psychological research and theory on persuasive communications and attitude change. Consideration will be given to the effects of the following factors: the nature of the communicator, the use of emotional appeals, the structure of persuasive communications, the personalities of the communication recipients and the occurrence of inconsistencies between belief and action. The consequences of gross situational changes such as "brainwashing" will be discussed. The last part of the course will be organized as a seminar devoted to individual research projects. Prerequisite: Psychology 11, or permission of the instructor. Permission will normally be granted to social science majors.

34. PERSONALITY ASSESSMENT AND CHANGE—*Two class hours and field work.* Mr. Heath.

The seminar will emphasize basic theoretical and statistical issues involved in personality assessment procedures, the methodological problems in assessing personality change, and a systematic introduction to the theories and contemporary research about personality disorders. The field work will offer closely supervised training in observational procedures, participation in the various services of a psychological facility, and discussions with the psychological and other professional staffs. Prerequisite: Psychology 16 and the consent of the instructor.

35, 36. CONTEMPORARY ISSUES IN PSYCHOLOGY—Messrs. Heath, Heise, and Perloe.

A joint faculty-student seminar investigating a limited problem area, the topic of which may vary from semester to semester. The course may not be offered regularly. It may be taken a second time with a change in topic. Prerequisite: Psychology 11 and the consent of the instructor.
Not offered in 1962-63.

38. PSYCHOLOGICAL THEORY—Mr. Heise.

The course is divided into three related parts: 1) History of psychology—psychology as the analysis of consciousness and the "schools" which challenged this conception of psychology; 2) Issues of scientific methodology pertinent to psychology, criteria for evaluation of psychological theory, and application of these criteria to recent "systems" such as those of Tolman or Hull; and 3) Examination of current theorizing in various areas of psychology. Prerequisite: Psychology 11 and at least one additional course in psychology.

51, 52. RESEARCH TOPICS IN PSYCHOLOGY—Messrs. Heath, Heise, and Perloe.

This course will introduce students to the problems of hypothesis formation and definition, experimental design, data analysis and report writing by means of seminars, closely supervised experimental research projects, and oral reports. Students must have selected the general topical area within which they wish to do research prior to admission to the course. Prerequisite: Psychology 21 and either 14 or 25, and the consent of the instructor.

62. SENIOR SEMINAR—Messrs. Heath, Heise, and Perloe.

The course is organized around each student's concentration program and has as its purpose the development in some depth of an understanding of the relation and contribution of psychology to some problem area of mutual concern to the psychologist and the humanist, social scientist, or natural scientist. Each student will write a major paper on a psychological topic that requires him to make use of knowledge of both psychology and another field.
Not offered in 1962-63.

81, 82. READING PROJECTS IN PSYCHOLOGY—Messrs. Heath, Heise, and Perloe.

Religion

ASSISTANT PROFESSOR GERHARD E. SPIEGLER, *Chairman*

THE DEPARTMENT OF RELIGION examines the nature and function of religious thought in terms of its historical formation and in its contemporary setting. Major attention is given to the diverse currents of the Judeo-Christian heritage. At the same time students are introduced to the historical comparative study of religions outside the Judeo-Christian tradition. Students majoring in religion must secure a solid methodological and substantive foundation in the field as a whole and concentrate on its relation to one other academic discipline, e.g., Anthropology, Classics, English, History, Philosophy, or Psychology.

Major Requirements

The exact structure of the program and the choice of the supporting discipline must be determined in consultation with the major supervisor and the second department in question. The program must include the following courses:

- a. Religion 11, 12; 21, 22 or 23-24; 100; Philosophy 21-22.
- b. Three additional half-year courses in Religion.
- c. Five half-year courses beyond the introductory level in the department of the supporting discipline.
- d. Such additional language courses as deemed essential by the department for the proposed course of study.

A comprehensive examination consisting of three parts:

- a. An examination in one of the following areas: 1) Biblical History and Literature; 2) Phenomenology and History of Religion; 3) History of Religious Thought in the Judeo-Christian Tradition.
- b. An examination in current philosophical and constructive theological thought.
- c. An examination in the supporting discipline, testing the level of competence in a specified area of the field in relationship to the studies in Religion.

Requirements for Honors

Honors in Religion are awarded for a prearranged special study of the works of some major theologian or work on a major theological problem. The usual method of testing such study is by a three-hour written examination and an oral examination, but a thesis may be presented in place of the written examination. Honors will not be given unless the candidate has an average of 85 or better in the regular comprehensive examinations in Religion, and High Honors require a minimum grade of 90.

11, 12. INTRODUCTION TO BIBLICAL HISTORY AND INTERPRETATION

—Mr. Spiegler.

A study of the formation and interpretation of the root literature of the Judeo-Christian tradition in its historical context and its theological content. In the first semester the course focuses upon the socio-political and religio-cultic life of the Hebrews. The religious thought of the Hebrew people is studied as well as the methods and results of critical scholarship in the field of Old Testament study. In the second semester the literature of the New Testament is examined within the context of the growing early Christian Church. Extensive reading in Biblical and extra-Biblical sources; reports, lectures, and class discussions.

21. FORMATION AND GROWTH OF CLASSICAL CHRISTIAN THOUGHT—

Mr. Spiegler.

A study of the origins and normative formulations of Christian doctrines in the encounter with Hellenistic religious and philosophical thought and their theological interpretation through 1300 A.D. Special attention is given to the works of the Apostolic Fathers, Irenaeus, Tertullian, Origen, Cyprian, Athanasius, Augustine, John Scotus Erigena, Anselm and Thomas Aquinas. Firsthand acquaintance with selected writings of these theologians; reports, lectures and class discussions. Prerequisite: Religion 11 or 12 or Classics 19-20 or Philosophy 21-22 (these may be taken concurrently) or the consent of the instructor.

Offered in 1963-64 and alternate years.

22. **CURRENTS IN THEOLOGICAL THOUGHT SINCE 1300 A.D.**—Mr. Spiegler.
A study of later Medieval and Reformation Protestant theological thought leading into an examination of the main theological currents since the Enlightenment within the context of modern philosophical developments. Special attention is given to works by such men as Meister Eckhart, Ockham, Luther, Calvin, Spinoza, Kant, Edwards, Schleiermacher, Kierkegaard, Feuerbach, Troeltsch, and Rauschenbusch. Firsthand acquaintance with selected writings of these thinkers; reports, lectures and class discussions. Prerequisite: Religion 12 or 21.
Offered in 1963-64 and alternate years.
- 23-24. **HISTORY OF RELIGIONS**—Mr. Spiegler.
An introduction to the phenomenology of religion and to the historical comparative study of religions. In the first semester generic characteristics of religious forms such as religious symbols, myths, communities and theologies are examined within the context of primitive religions. In addition, studies in classical and modern Islam are initiated. In the second semester work focuses upon Eastern religions, particularly upon Hinduism, Buddhism, Confucianism and Shinto. Reports, lectures and class discussions.
Offered in 1962-63 and alternate years.
28. **PHILOSOPHY OF RELIGION**—Mr. Steere.
(See Philosophy 28.)
29. **RELIGIOUS IDEAS IN MODERN CULTURE**—Mr. Spiegler.
(Also called Philosophy 29.)
A study of constructive theological and philosophical problems and issues in contemporary religious thought with special attention to theistic and nontheistic existentialism, theological naturalism and dialectical confessional theology. The work of such men as Buber, Berdyaev, Jaspers, Heidegger, Bultmann, Whitehead, Wieman, R. Niebuhr, H. R. Niebuhr, Herberg, Barth and Tillich will be treated respectively. Firsthand acquaintance with selected writings of four of these men; reports, lectures and class discussions.
32. **SEMINAR IN HISTORICAL AND PHILOSOPHICAL THEOLOGY**—Mr. Spiegler.
(Also called Philosophy 32.)
Specialized study of the works of some major philosopher and theologian or work on a major theological problem. Topic for 1962-63: Process philosophy and theology, a study of Alfred North Whitehead and Henry Nelson Wieman. Prerequisite: Consent of the instructor.
- 81, 82. **PROJECT COURSES**—Mr. Spiegler.
Individual consultation; independent reading and research.

Romance Languages

PROFESSOR MARCEL M. GUTWIRTH, *Chairman*

PROFESSOR MANUEL J. ASENSIO

ASSOCIATE PROFESSOR BRADFORD COOK

ASSISTANT PROFESSOR ENGLISH SHOWALTER, JR.

LECTURER MADELYN R. GUTWIRTH

ADMISSION of new students to all French and Spanish courses except French 11-12 and Spanish 11-12 is contingent upon placement examinations administered by the Department prior to the opening of such courses.

Opportunity is given to students who complete French 11-12, Spanish 11-12 or Spanish 13-14 with distinction to advance rapidly into higher courses by passing a special examination in September on a prescribed program of vacation study.

Residence in the French and Spanish Houses and participation in the Cercle français and Club español afford an opportunity for supplementary oral practice.

Students who might profitably spend their Junior year in France or Spain are encouraged by the Department to apply for admission to the institutions sponsoring foreign study groups.

Students majoring in Romance Languages are encouraged to spend a summer in France or in a Spanish speaking country. Foreign summer schools and projects sponsored by the American Friends Service Committee and other organizations offer exceptional opportunities in this regard.

FRENCH

THE PROGRAM in French is designed to give the student some facility in handling the French language, by elucidation and review of fundamentals, by a progressive course of readings, constant practice in hearing, speaking, writing French. Through the study of French history the student is further made aware of the circumstances that have given rise to French civilization and the institutions that shaped its unfolding. Through the masterpieces of French literature, which he is then ready to approach, by close study of style and structure, of moral and artistic intentions he is led to enlarge his understanding of the human heart—as well as of the mind—and to heighten his perception of artistic achievement. A reading in the original of the works of major figures like Pascal, Molière, Balzac, Flaubert, Proust, moreover, will perfect his acquaintance with some of the best in his own heritage, the culture of the West.

Major Requirements

French 31, 32, 33, 34, 41, 42, and 100.

Supporting courses to be arranged in individual conference with the Major Supervisor.
Comprehensive Examination.

Requirements for Honors

Honors in French will be awarded on the basis of consistently distinguished work in the literature courses—including at least one project course—and of a grade of 90 or

better on the comprehensive examinations. High Honors will be determined by a further oral examination.

11-12. INTRODUCTION TO FRENCH LANGUAGE AND THOUGHT—Mr. Cook and Mr. Showalter.

Pronunciation and intonation; grammar, with oral and written exercises. Reading, in the second semester, of easy texts of literary merit.

13-14. THE FRENCH NATION—Mr. Cook, Mrs. Gutwirth, and Mr. Showalter.

The purpose of the course is to acquaint the student with French civilization by making him familiar with the broad outline of French social, political, and literary history. Representative literary works are read, in conjunction with a standard French history text. Grammar review, *dictées*, short written compositions, classes conducted in French. Prerequisite: French 11-12 or the equivalent.

21. DICTION AND COMPOSITION IN FRENCH—Mr. Showalter.

Intensive language work in a small class. Grammar review, compositions, pronunciation drill, oral reports. The work will be centered on literary topics (e.g., the contemporary theatre), but the emphasis will be on perfecting linguistic performance. Prerequisite: permission of the Department.

22. EXPLICATION DE TEXTES—Mr. Showalter.

An introduction to the study of French literature by the method of intensive analysis of style and structure applied to the several *genres*. Prose and poetry, essay and fiction drawn from a variety of periods will come under scrutiny. Prerequisite: French 21 or the equivalent.

31. THE CLASSICAL AGE—Mr. Cook.

Readings in the French XVIIth century, from Pascal's *Pensées* to La Bruyère's *Caractères*, with special attention to the flowering of the classical drama. Prerequisite: French 22 or the equivalent.
Offered in 1961-62 and alternate years.

32. THE TWENTIETH CENTURY—Mr. Gutwirth.

Three generations, those of Gide, Malraux, and Sartre, will be examined in representative novels, plays, essays, and poems. Prerequisite: French 22 or the equivalent.
Offered in 1961-62 and alternate years.

33. NINETEENTH CENTURY LYRIC POETRY—Mr. Cook.

The lyrical rebirth of the 19th century: Hugo, Baudelaire, Rimbaud, Verlaine, Mallarmé. Prerequisite: French 22 or the equivalent.
Offered in 1962-63 and alternate years.

34. THE NOVEL FROM LACLOS TO PROUST—Mr. Gutwirth.

The rise of the modern novel in France from the late 18th to the early 20th century, with particular attention to Balzac, Stendhal, Flaubert, Zola, and Proust. Prerequisite: French 22 or the equivalent.
Offered in 1962-63 and alternate years.

41. ADVANCED TOPICS IN FRENCH LITERATURE

1962-63. Montaigne. Mr. Gutwirth.

1963-64. La Fontaine.

Prerequisite: consent of the instructor.

42. ADVANCED TOPICS IN FRENCH LITERATURE

1962-63. Baudelaire. Mr. Cook.

1963-64. Stendhal and the Analytical Novel.

Prerequisite: consent of the instructor.

81, 82. SPECIAL PROJECTS IN FRENCH LITERATURE—Mr. Gutwirth, Mr. Cook, and Mr. Showalter.

This course offers the student of French literature an opportunity to probe more deeply and more independently into a problem or into an area in which he is particularly interested. The nature of the course will therefore vary to suit the needs of each individual student.

SPANISH

The courses offered in Spanish are designed to give the students a thorough knowledge of the Spanish language and an understanding of Spanish and Spanish-American thought and culture. Elementary Spanish and Intermediate Spanish are primarily language courses, with emphasis on grammar, reading, and conversation. Even in these elementary courses the approach corresponds to the liberal tradition of the College, placing emphasis on the human value of the language, and its importance in international and continental solidarity and understanding. The elementary courses are followed by general courses in civilization and literature, as the basis for the more advanced courses covering special periods, works, and authors in Spanish and Spanish-American literatures.

Major Requirements

Spanish 21-22; 23-24, 81 or 82, and 100.

History of Spain and Spanish America, as a background for literature.

Supporting courses to be arranged in individual conference with the Major Supervisor. Comprehensive Examination.

Requirements for Honors

Honors in Spanish are awarded to students who consistently show high quality work in their literature courses and undertake study beyond the normal requirements. Every Honors student must complete at least one project course. A minimum grade of 90 is required in the comprehensive examinations. High Honors are awarded on the basis of a further oral examination.

11-12. ELEMENTARY SPANISH—Mr. Asensio.

Grammar, with written and oral exercises; reading; thorough drill in conversation.

13-14. INTERMEDIATE SPANISH—Mr. Asensio.

Review of grammar, with written and oral exercises; composition, reading and conversation. Prerequisite: Spanish 11-12 or the equivalent.

15-16. INTRODUCTION TO HISPANIC CIVILIZATION—Mr. Asensio.

Geographic, cultural, and historical background. Emphasis is laid on basic attitudes underlying the Spanish and Spanish-American culture pattern and contrasting with

characteristic American attitudes. Lectures, reading, discussion, written reports. Prerequisite: Spanish 13-14 or the equivalent.

21-22. INTRODUCTION TO SPANISH LITERATURE—Mr. Asensio.

A survey of Spanish literature from the beginnings to modern times; lectures, written and oral reports. Prerequisite: Spanish 13-14 or the equivalent.

Offered in 1962-63 and alternate years.

23-24. INTRODUCTION TO LATIN-AMERICAN LITERATURE—Mr. Asensio.

A survey of Latin-American literature from the Colonial period to modern times; lectures, written and oral reports. Prerequisite: Spanish 13-14 or the equivalent.

Offered in 1963-64 and alternate years.

33. SPANISH LITERATURE OF THE GOLDEN AGE—Mr. Asensio.

Cervantes, Lope de Vega, Tirso de Molina, Calderon; lectures, written and oral reports.

Not offered in 1962-63.

81, 82. SPECIAL TOPICS IN SPANISH LITERATURE—Mr. Asensio.

Reading and lectures; written and oral reports. This course may be repeated, with change of content, for full credit.

Russian

ASSOCIATE PROFESSOR FRANCES DE GRAAFF, *Chairman*

ASSISTANT PROFESSOR RUTH PEARCE

THE COURSES in Russian are designed to offer the students the opportunity to learn to read and speak Russian and to achieve an understanding of the thought and culture of pre-revolutionary as well as contemporary Russia. Russian 11-12 and 21-22 are primarily language courses. The elementary course teaches the basic grammar and enough vocabulary to enable the student to speak and understand simple Russian. The intermediate course introduces the student to the Russian literary language; also some newspaper articles and other contemporary material are read.

Students who have completed Russian 21-22 can continue with the more advanced courses offered at Bryn Mawr College.

Major Requirements

(Courses numbered above 100 are offered at Bryn Mawr College.)

Students majoring in this field will be required to take:

8 semester courses in Russian language and literature: 11-12, 21-22, 201, a 300 course chosen from 301, 302, 303, 304, in addition to the 100 course.

4 semester courses in Russian history and institutions: History 208 (History of Russia); Political Science 43 (The Soviet System).

Other related courses, including Russian 203, (Russian Literature in Translation) will be arranged in individual conference with the Major Supervisor.

A comprehensive examination on the Russian language, a special period of Russian literature, and Russian history.

Requirements for Honors

Honors in Russian will be awarded on the basis of consistently high quality work in literature, and a research paper. High Honors will be awarded on the basis of further oral examination.

11-12. ELEMENTARY RUSSIAN—*Five periods a week.* Miss de Graaff.

Russian grammar, conversation, and reading. This course meets five times a week with corresponding reduction in outside preparation; three hours credit.

21-22. INTERMEDIATE RUSSIAN—*Four periods a week.* Miss de Graaff.

Grammar review, reading in Russian classics and contemporary materials, conversation. Prerequisite: a grade of 70 or higher in Russian 12, or the equivalent.

Sociology and Anthropology

PROFESSOR IRA DE A. REID, *Chairman*

ASSOCIATE PROFESSOR A. PAUL HARE, *Acting Chairman*

VISITING ASSOCIATE PROFESSOR ROBERT C. WILLIAMSON

THE CURRICULUM in Sociology and Anthropology is designed to develop the student's understanding of the social structure, the social process, and the social relationships of human societies. The subject matter deals with man, his groups, his organizations, and his communities. Courses are offered for those who would make these subjects their area of major interest as well as for those students who wish to study behavioral science methods or such specific subjects as populations, the family, small groups, and the urban community. Complementary and supplementary courses in Sociology and Anthropology are offered in conjunction with Bryn Mawr College.

Major Requirements

A major program in Sociology and Anthropology has a prerequisite of Sociology 11, 21, and 22. Students are advised to take these courses in their Freshman and Sophomore years. The program requires in addition the satisfactory completion of the following courses:

- a. Sociology 49, 81 or 82, 100.
- b. four additional courses in Sociology and/or Anthropology selected from the offerings below or from those at Bryn Mawr College.
- c. two courses selected from the Departments of Economics, Political Science, and Psychology, subject to the approval of the Major Supervisor.

Mathematics 17 is suggested but not required.

A comprehensive examination and a research paper designed to test the student's knowledge as well as his ability to integrate and utilize the subject matter of the behavioral sciences are required in the Senior year.

Students who wish to take a major program with primary emphasis on Anthropology should consult the Chairman of the Department.

Requirements for Honors

Candidates for Final Honors in Sociology and Anthropology will be required to maintain an average of 85 or over in their major courses, to complete two research papers, one during the Junior year, another during the Senior year, and to pass with distinction a comprehensive examination.

11. **INTRODUCTORY SOCIOLOGY**—Mr. Hare and Mr. Williamson.

A basic course designed to acquaint the student with the essential points of view about human groups and their behavior, the more important information which sociologists have discovered about groups, the research procedures used, and the basic methods of the field.

12. **SOCIAL PSYCHOLOGY**—Mr. Perloe.

(See Psychology 12.)

21, 22. **SOCIAL RESEARCH**—Mr. Hare.

An analysis of classic and significant studies in the fields of social sciences with a view toward understanding the methods, tools, techniques, and hypotheses of social research. Studies will demonstrate the use of statistical, case, historical, and other research procedures. Sociology 22 will introduce principles and practices in computer analysis in the social sciences. Individual projects. Prerequisite: Sociology 11, or introductory courses in the other social sciences.

32. **COMMUNICATION, PROPAGANDA, AND ATTITUDE CHANGE**—Mr. Perloe.

(See Psychology 32.)

33. **POPULATION POLICIES AND PROBLEMS**—Mr. Williamson.

(Also called Economics 33.)

A study of the restrictive, expansive and eugenic aspects of national population policies as they are related to demographic theory. Special reference is given to the problems of fertility and mortality, density, immigration, and food supply. Prerequisite: Sociology 11 and 21.

Offered in 1962-63 and alternate years.

34. **SOCIAL WELFARE AND PUBLIC POLICY**—Mr. Somers.

(See Political Science 34.)

35. **THE SOCIOLOGY OF SMALL GROUPS**—Mr. Hare.

Theoretical and experimental analyses of the structure and interaction systems of small social groups. Special attention is given to the methodologies of sociometry and field theory and their relevance for economic, political, and social situation analysis. Prerequisite: Sociology 21.

37. **THE FAMILY**—Mr. Williamson.

A study of the institutions designed to guarantee the perpetuation of the group and its cultural heritage in comparative societies. The course will analyze functions, forms and processes of the institutions of marriage and the family. Individual projects. Prerequisite: Sociology 11.

38. **THE MODERN URBAN COMMUNITY**—Mr. Williamson.

A study of the social and spatial aspects of modern urban community organization as influenced by personal, technological, ecological, economic and political

factors. Special attention is given to the problems and processes of planning. Individual projects. Prerequisite: Sociology 11 and 21.

40. RACE AND ETHNIC GROUPS IN THE MODERN WORLD.

An analysis of the secularization of the world's peoples and the contemporary "minorities" situations in the world; how these situations arise; how they are perpetuated. Special attention is given to theories and methods of analysis. Individual projects. Prerequisite: Sociology 11.
Not offered in 1962-63.

41. LABOR ECONOMICS AND LABOR RELATIONS—Mr. Teaf.
(See Economics 41.)

45b. SOCIAL DISORGANIZATION AND DEVIANT BEHAVIOR—Mr. Hare.

An analysis of the theories and problems of social disorganization as they relate to conformity and deviancy in human behavior. The course will be based on a series of specially designed case studies dealing with the situations and roles of the gambler and the speculator, the migrant and the vagrant, the sexual deviant, the alcoholic and the drunkard, the spectator and the performer, the delinquent and the criminal, the conscientious objector and the radical. Discussions, field trips, reports. Prerequisite: Permission of the instructor.

47. REGIONAL ANALYSIS—Mr. Smolensky.
(See Economics 47.)

49. SOCIAL THEORY—Mr. Schneider.

Analysis of the theoretical work of several classical and modern thinkers. (This course is given at Bryn Mawr College as Sociology 302a.)

52. ISSUES IN SOCIETY—Mr. Williamson.

This seminar is designed to treat a sociological situation of current or potential importance, emphasizing the nature and problems of social fact, social values and the social process. This course may be repeated for credit. Prerequisite: Permission of the instructor.

81, 82. PROJECT AND READING COURSES—*Individual consultation; supervised independent reading and research*—Staff.

Research papers and reading courses on special topics based upon the individual interests of advanced students. Theses for majors in the Department may be written for credit in this course. Admission is subject to the consent of the Chairman. Required of all Sociology-Anthropology majors. Prerequisite: Permission of the Department.

Offerings in Anthropology at Bryn Mawr College

ANTHROPOLOGY 101. MAN, CULTURE, AND SOCIETY—Miss De Laguna.

ANTHROPOLOGY 203a. PRIMITIVE CULTURES—Miss Goodale.

ANTHROPOLOGY 203b. PRIMITIVE SOCIETY—Miss Goodale.

ANTHROPOLOGY 209b. THE AMERICAN INDIAN—Miss De Laguna.

Spanish (see Romance Languages)

Arts and Service Program

THE FACULTY OF HAVERFORD COLLEGE adopted in the spring of 1947 a program designed to cultivate aesthetic perception, creative control of materials, a love of fine workmanship, and other important areas of learning and of experience, such as community service, which have usually been omitted from the liberal arts program. The Faculty feels that, though courses in these areas cannot properly be included in the academic curriculum, they are of no less importance in the development of personality than strictly intellectual work.

Every student is required to take nine terms (a "term" in this sense being approximately nine weeks in either the autumn, winter, or spring) of work which is not academic in nature. It is mandatory that six of these terms be taken in Physical Education: three in the Freshman year, two in the Sophomore year, and one in the Junior year. The remaining three terms may be devoted either to courses of the Department of Physical Education or to those of the Arts and Service Program described here. The Arts and Service courses are offered in the fall and winter but not in the spring term; the first election of such courses may be made in the Sophomore year.

In its non-academic work, the College insists on the same high quality of teaching which it demands in its academic courses. A distinction in the two types of work is needed not because one is thought to be less important than the other, but because in the opinion of the Faculty the two kinds of work are different and should not be equated.

CABINETMAKING—*Three hours a week.* Mr. Holmes.

Instruction in woodworking with hand tools on selected tasks. Qualified students may work on projects of their own choice insofar as facilities permit. Cost of materials will be borne by the student. Limited to five students, with consent of the instructor. Offered in the winter term, but students wishing to enroll in this course should see Mr. Holmes at the time of registration for the fall term.

COMMUNITY SERVICE—*Three hours a week.* Mr. Hetzel.

This course provides an opportunity for students to render service to, and participate in, the affairs of the community. Arrangements are made on an individual basis for scheduled and supervised activities such as Boy Scout leadership, work at the Main Line YMCA and at community centers in Philadelphia, political party and election campaign activity, work for the Red Cross, the American Friends Service Committee, etc. Offered in the fall and winter terms.

COMPUTER USAGE—*Three hours a week.* Mrs. Johnson.

A course designed to acquaint students with digital computers, and the analysis and preparation of problems for computers. Each student will have the opportunity to program and run a problem on the IBM 1620. Examples will be drawn from scientific and business applications. Offered in the fall and winter terms. Limited to fifteen students.

DATA PROCESSING MACHINES—*Three hours a week.* Mr. Lindsley Williams.

A course to familiarize students with basic data processing machines. Each student will have opportunities to use the keypunch, sorter, reproducer, and the 402 accounting machine on problems drawn chiefly from business applications. Offered in the fall term. Limited to ten students.

MACHINE-TOOL WORK—*Three hours a week.* Mr. Wilson.

This course, designed for beginners, will include machine-tool work on the lathe, milling machine, shaper, and drill-press. Those who have sufficient skill will be permitted to use the scheduled period for approved projects of their own choice. Offered in the winter term. Limited to five students.

MODELING AND SCULPTURE—*Three hours a week.*

A course open to beginners or advanced students. It includes composition, portrait, life, and some study of modern trends in sculpture. Students will use wet clay and pasteline, and will build directly in plaster. As artists have long been taught to read, so this course aims to teach academic students to see. Offered in the winter term.

MODERN IRON SCULPTURE—*Three hours a week.*

A practical course using a spot welder to develop three dimensional free forms. Each student will make sketches and develop a composition, will use iron rods and thin-gauge sheet iron cut, shaped, and then welded together. Students will also discuss modern sculpture with the instructor. Offered in the fall term. Limited to six students.

MUSIC APPRECIATION—*Three hours a week.* Mr. Caselli.

Verdi; the simplicity of a genius. His life and works against the political background of nineteenth century Italy. Offered in the fall term.

PAINTING AND GRAPHIC ARTS—*Three hours a week.* Mr. Janschka.

The purpose of instruction in this course is to help the student in acquiring perception and skill in artistic creation and rendition through the media of drawing, printmaking, and painting. It will involve an investigation of the uses and potentialities of different techniques, employing still life, life models, and imagination. For the advanced student the stress is on picturemaking, but prior experience is not required. Offered in the fall and winter terms. Limited to twelve students each term.

PHOTOGRAPHY—*Three hours a week.* Mr. Wilson.

This is a course for beginners, and will include instruction in the use and characteristics of photographic equipment, the processing of films and papers, and the composition of subject material both indoors and outdoors. Offered in the fall term. Limited to four students.

RADIO COMMUNICATION—*Three hours a week.* Mr. Benham.

This course consists of projects in radio, such as instruction in the International Morse Code, a study of basic principles, or a construction project (the cost of materials to be borne by the student). It may serve as preparation for the amateur license examination given by the Federal Communications Commission. Offered in the winter term. Admission with the consent of the instructor.

READING AND RECORDING FOR THE BLIND—*Three hours a week.* Mr. Benham and Mr. Butman.

This course offers the opportunity of reading to students at the Overbrook School for the Blind, or making tape recordings of short stories, novels, and poetry. Admission with the consent of the instructors. Offered in the winter term, but students wishing to enroll in this course should see Mr. Benham at the time of registration for the fall term.

THEATER ARTS—MOVEMENT ON THE STAGE—*Three hours a week.* Mr. Butman.

In this course the student is taught how to move on the stage, both in mime and regular acting. The purpose is mainly to overcome self-consciousness and to help the student in self-expression. Offered in the fall term.

THEATER ARTS—SPEAKING ON THE STAGE—*Three hours a week.* Mr. Butman.

A course in which the student is taught how to use his voice on the stage, both as a formal speaker and as an actor. Training is given in dramatic speaking, verse reading, and public speaking. Offered in the winter term.

WEEKEND WORKCAMPs—Mr. Hetzel and Mr. Richie.

Students electing this course will spend two weekends participating in the work of renovating houses in certain areas in Philadelphia, or in the Weekend Institutional Service Units of the American Friends Service Committee as volunteer workers in a psychiatric hospital. Consultations with expert social workers and discussion within the group will promote an interest in and an understanding of social problems. Offered in the fall and winter terms.

Student Government

THE STUDENTS' ASSOCIATION is made up of all undergraduates at Haverford College. The College Administration has delegated to the Students' Association—and the Association has accepted—the responsibility for nearly all aspects of student conduct and of student organizations on the campus. The main instrument for exercising this unusual degree of self-government is the Students' Council, composed of elected representatives from each class.

The Students' Council is both an executive and a judicial body. It handles all phases of the administration of regulations of the Students' Association. On the campus the Council manages extracurricular activities, exclusive of athletics, and allocates to each organization a percentage of the Student Activities Fees.

The presidency of the Students' Council is the most important undergraduate office at Haverford. The President represents the student body before the Board of Managers, the College Administration, and the Faculty. He serves both as liaison officer and as executive. He conveys to the College Administration the recommendations of the Students' Council in disciplinary matters.

Honor System

THE HONOR SYSTEM at Haverford is based on the belief that students can successfully take the responsibility of establishing and maintaining standards in social and academic life. In the academic area the Honor System stipulates that one should distinguish clearly between one's own work and material from any other source. Since examinations are not proctored at Haverford, suitable conduct is required by accepted code. In the social area the guiding principle is respect for women guests and for the College.

THE HONOR PLEDGE is called to the attention of each applicant for admission to Haverford College:

"I hereby accept the Haverford College Honor System, realizing that it is my responsibility to safeguard, uphold, and preserve each part of the Honor System and the attitude of personal and collective honor upon which it is based."

Specifically, each student who enters Haverford pledges himself to uphold three responsibilities under the Honor System: (1) to govern his own conduct according to the principles which have been adopted by the Students' Asso-

ciation; (2) in case of a breach of the Honor System to report himself to the Students' Council; (3) if he becomes aware of a violation by another student, to ask the offender to fulfill his pledge by reporting himself. If the offender refuses, the student is pledged to report the matter to the Students' Council. In this manner each individual becomes personally responsible for the successful operation of the entire Honor System.

There are several ways in which the Honor System contributes to the quality of student life at Haverford. There is educational value in considering carefully the factors which make standards necessary and in deciding as a group what standards and regulations are needed in a college. It follows that a large degree of self-government is made possible since students are willing to respect those standards which they themselves have set up. At the same time Haverford successfully meets its responsibility to the community by maintaining an acceptable level of conduct. With his privileges and responsibilities more clearly defined, a Haverford student enjoys a freedom which contributes to the atmosphere of integrity and mutual confidence that prevails at the College.

Each entering student must feel confident before selecting Haverford that he can give his active support to the Honor System. He should realize that its success, which is of great importance to him personally and to the whole student body, and indeed to the College itself, depends upon his willingness to give it his complete support.

Student Committees

The constitution of the Students' Association provides for the following committees to be appointed by the Students' Council:

THE HONOR SYSTEM COMMITTEE is responsible for introducing the Honor System to incoming students. It also makes periodic evaluations of how the System works.

THE STUDENT CURRICULUM COMMITTEE investigates and suggests possible changes in the program of study of the College.

THE CUSTOMS COMMITTEE is in charge of introducing the Freshmen to the College in September.

THE RULES COMMITTEE is an advisory committee on legal and procedural matters of Student Government and continually evaluates and suggests changes in the Constitution.

THE DORMITORY COMMITTEE works with the Comptroller in handling complaints and making recommendations for dormitory improvements.

Various other committees are appointed by the Students' Council according to existing needs.

Student Organizations

THE CAUCUS CLUB is an organization of men interested in political, economic and sociological affairs. It includes as subsidiary groups a chapter of the Intercollegiate Conference on Government and the Political Forum which is responsible for bringing speakers on current affairs in these fields to the campus.

THE INTERNATIONAL CLUB, founded in 1954 by an exchange student, offers opportunities for Haverford students to become acquainted with customs in foreign countries.

THE W. W. COMFORT DEBATING SOCIETY elects to membership men who have shown a consistent interest in debating, and who have represented the College on more than one occasion.

THE DRAMA CLUB, in conjunction with the Bryn Mawr College Theatre, produces on the average three major plays a year, alternating between the Bryn Mawr and Haverford stages. The workshop of the Club, with lectures and discussions on all vital aspects of play production, is open to all regardless of previous experience.

THE HAVERFORD COLLEGE GLEE CLUB, the chief musical organization of the College, is open to all students who have a love of music and enjoy singing. A schedule of trips and joint concerts with choruses of the principal women's colleges is planned each year, often including a concert tour during Spring vacation. The Club presents major choral works as well as numbers for male voices. Rehearsals are held twice weekly.

THE ORCHESTRA is a combined enterprise with Bryn Mawr College. All students playing orchestral instruments are invited to get in touch with the Director, Dr. William Reese. Concerts of orchestral music are presented during the year and the Orchestra often participates with the Glee Club in the performance of major choral works.

Smaller ensemble groups for chamber music are fostered at both colleges. There is opportunity for instrumental study with noted teachers at nearby music institutions.

THE RADIO CLUB operates the College radio station, WHRC. Members of the club arrange programs, operate the station, and build or buy necessary equipment. The studios are located in the third floor of the Union Building.

THE VARSITY CLUB of Haverford College, organized in 1936, is composed of undergraduates who have won varsity letters. Its purpose is to advance the interests and ideals of the College through athletics.

THE ARTS COUNCIL is an organization whose purpose is to encourage interest and participation in the arts. To carry out this aim the Council sponsors recitals, readings, lectures on the arts, and other events of this nature on the campus. Membership is open to anyone who is interested in this area of activity.

DEPARTMENTAL CLUBS. There are at Haverford various departmental groups which arrange for outside speakers, hold discussion sessions, sponsor demonstrations, plays, and social gatherings. Among these are the French Club, German Club, Spanish Club, Philosophy Club, Psychology Club, the Mathematics Club, Biology Club, and Chemistry Club.

Joint Faculty and Student Groups

THE COMMITTEE ON STUDENT AFFAIRS is a joint committee made up of members of the administration and undergraduates. It is responsible for setting policy and for arranging the calendar for social events, athletics, and extra-curricular activities. The budgets of all recognized student organizations must be submitted to it for approval.

THE CAMPUS CLUB is an association of graduates, faculty members, undergraduates, and friends of the College who are interested in maintaining and increasing the beauty of the College campus.

Student Publications

THE HAVERFORD NEWS is a weekly newspaper, published on Fridays, during the college year, by undergraduates. There are opportunities for all interested men on both editorial and business staffs.

THE HAVERFORD COLLEGE HANDBOOK is published each fall under the auspices of the Students' Council. It contains information particularly valuable to new students.

THE RECORD is published annually by the Senior class, with the financial support of the Students' Association. It includes a record of the year, with particular emphasis upon the activities of the graduating class.

THE HAVERFORD REVUE is a magazine devoted to student literary efforts. It is published approximately twice a year.

Health Program

THE HAVERFORD COLLEGE HEALTH PROGRAM is under the direction of the College Physician, who holds office hours at the Infirmary at stated hours

and is available in any emergency. Also available to all College students by appointment at the College Infirmary, is a qualified Psychiatrist. The advice and help of expert medical consultants may be obtained readily at the Bryn Mawr Hospital. When necessary, additional consultants are obtained from one of the University Hospitals in Philadelphia. The College Nurse is on duty at the Infirmary at all times.

Each student is required to have a complete physical examination by his own physician before entering the College and each year before returning to campus. Follow-up examinations are given when indicated by the College physician. Influenza Vaccine is recommended and given to the entire student body each year, at no additional cost to the student. Immunization against smallpox, tetanus, poliomyelitis, and typhoid fever is required before entering the College. Pre-entrance chest x-ray examination is strongly recommended.

Each student is entitled to unlimited dispensary service, at stated hours, and first-aid service at any time.

In case of illness, each student is entitled to two weeks of residence in the Morris Infirmary each semester, ordinary medicine, diagnostic laboratory work, and x-rays needed for diagnosis, and the services of the College physician and resident nurse.

Students will be charged \$5.00 a day for residence in the Infirmary after their first two weeks. Day students will be charged for board in addition, while in the Infirmary.

Each student is also covered by a blanket accident policy which pays actual expenses resulting from any accident up to a limit of \$1000.00 for each accident. The expenses covered include x-rays, medicine, surgical appliances, hospital bills, nursing care, physician's fee, surgeon's fee, and also dentist bills for repair or replacement of natural teeth as a result of an accident, subject to the approval of the College physician. The coverage is in force from 12:01 A.M. Standard Time three days before the date when registration of entering students begins until midnight three days after Commencement Day.

All of these services and benefits are covered by the Unit Fee which is paid by all students (see page 27).

The Infirmary, presented by John T. Morris, '67, contains ten beds, a surgical room, an isolation ward for contagious diseases, its own kitchen, and accommodations for a resident nurse. Every provision has been made for medical and surgical treatment of all cases among students during the college year. The danger of infection through illness in the college dormitories is thus minimized.

Library, Laboratories, and Other Academic Facilities

The Library

THE HAVERFORD COLLEGE LIBRARY is planned and developed with the primary purpose of providing the intellectual resources of books, periodicals, and pamphlets needed to sustain the work of the academic curriculum. Most of the volumes have been selected by the teaching faculty, and, with the exception of some special collections described below, the books and periodicals are all on open shelves and readily accessible for over ninety hours a week during the college year. In the administration of the Library, the aim is to bring the resources of the book collection as effectively as possible into the academic life of the College.

Beyond this primary purpose, the Library seeks through several collections to provide opportunities for independent research in certain fields. Most notable of such collections is the Quaker Collection, which attracts many visiting scholars each year. The Government Depository and International Documents Collections provide extensive resources for independent study in the social sciences, and there are further collections of autograph material, orientalia, and particularly of Renaissance literature offering similar research opportunities in other fields.

The Haverford Library contains about 221,000 volumes, and holds subscriptions to about 800 serials. Though designed especially for the use of students and faculty of the College, the Library welcomes outside readers who wish to consult the books, and, under certain restrictions, may grant them special borrowing privileges. The Library is open on weekdays from 8:00 A.M. to midnight, and on Sundays from 2:00 P.M. to midnight. (Treasure Room: Weekdays—9:00 - 5:00; Saturdays—9:00 - 12:00). Special hours are arranged for vacation periods.

The Library building, the first portion of which (the present north wing) was built in 1863, has grown by five successive additions. In December 1952 the original north wing was renovated in memory of William Pyle Philips, and now forms a bright and comfortable room for quiet study. There are also four special reading rooms in the building:

THE GUMMERE-MORLEY MEMORIAL READING ROOM, decorated and equipped by the Class of 1892, provides a reading and browsing room for Haverford students.

THE MICROMATERIALS READING ROOM, equipped with microfilm and microprint readers and a microfilm file of *The New York Times* from 1930 to the present.

THE RUFUS M. JONES STUDY, a replica of Rufus Jones' own study, with his own books and furniture, is used for seminar classes in philosophy as well as for quiet reading.

THE TREASURE ROOM, provided through the generosity of Morris E. Leeds of the Class of 1888, contains the Quaker Collection as well as other rare books and special collections.

Special Collections

THE QUAKER COLLECTION, containing approximately 20,000 books and 40,000 manuscripts, maps and pictures of interest to the Society of Friends, provides a repository for Quaker literature in the United States, and makes Haverford a vital center for the study of the history and philosophy of Quakerism. The unique nucleus of the library is *The William H. Jenks Collection of Friends' Tracts*, mostly of the seventeenth century, which numbers about 1500 separately bound titles.

THE RUFUS M. JONES COLLECTION ON MYSTICISM contains almost a thousand books and pamphlets from the fifteenth century to the present day.

THE TOBIAS COLLECTION OF THE WRITINGS OF RUFUS M. JONES is practically complete. It consists of 168 separate volumes and 16 boxes of pamphlets and extracts.

THE CHARLES ROBERTS AUTOGRAPH COLLECTION contains more than 20,000 items, embracing autographs of the signers of the Declaration of Independence, authors, statesmen, scientists, ecclesiastics, and monarchs, and also several series of valuable papers on religious and political history.

FRENCH DRAMA OF THE ROMANTIC PERIOD, a collection of several hundred popular plays produced in Paris between 1790 and 1850. The collection was presented to the College by William Maul Measey.

THE CHRISTOPHER MORLEY COLLECTION OF AUTOGRAPH LETTERS comprises about 200 letters and memoranda selected by Mr. Morley from his correspondence files. Over one hundred contemporary authors are represented.

THE WILLIAM PYLE PHILIPS COLLECTION contains rare books and manuscripts, mostly of the Renaissance period. Among the treasures of this collection are first editions of Dante, Copernicus, Spenser, the King James Bible, Milton, Newton, and the four folios of Shakespeare.

THE HARRIS COLLECTION OF ANCIENT AND ORIENTAL MANUSCRIPTS contains over sixty Hebrew, Latin, Arabic, Syriac, and Ethiopian rolls and codices collected by J. Rendel Harris.

Affiliations

Haverford maintains a cooperative arrangement with Bryn Mawr and Swarthmore whereby the facilities of the libraries of all three colleges are open to the faculty and students of each of the colleges.

THE PHILADELPHIA BIBLIOGRAPHICAL CENTER AND UNION LIBRARY CATALOGUE, the largest regional cooperative catalogue in America, enables users of the Haverford Library to locate books in over one hundred and seventy libraries of the Philadelphia area.

THE LIBRARY ASSOCIATES is an organization of graduates and friends of the College, devoted to increasing the usefulness of the Library. It serves to bring the facilities of the Library to wider notice and to make them available to the whole Haverford community; to encourage the making of gifts to the Library; and to aid in the use of the Library for exhibition purposes. Also, it sponsors occasional talks on Sunday afternoons on matters of interest to friends of the Library. Inquiries should be addressed to The Library, Haverford College.

Scientific Laboratories

THE WILLIAM J. STRAWBRIDGE MEMORIAL OBSERVATORY is equipped with three equatorially mounted telescopes, a 10-inch and a 4½-inch refractor, and a 6-inch reflector; a reflecting telescope with 8-inch mirror and altazimuth mounting; a meridian circle telescope of 3¾-inch aperture; a zenith telescope of 2¼-inch aperture; a spectroheliometer; an astrographic mounting provided with two 4-inch Ross lenses and a 4-inch guiding telescope; sidereal clocks, a chronograph, and other instruments. The astronomical library is housed in the Observatory.

THE LYMAN BEECHER HALL CHEMISTRY LABORATORY is a three-story structure with working space in the various laboratories for about two hundred and fifty students. Separate laboratories are available for general chemistry and qualitative analysis, quantitative analysis, organic chemistry, qualitative organic analysis and organic synthesis, semimicro quantitative analysis, and

physical chemistry respectively. In addition two rooms are devoted to the needs of research students. Books and periodicals dealing with chemical subjects are housed in a comfortably furnished library on the first floor which is open to the students.

THE HILLES LABORATORY OF APPLIED SCIENCE houses the Engineering Department. It contains classrooms, drawing rooms, a departmental library, shops, and mechanical and electrical laboratories.

Exceptional facilities for observing the practical side of the work are offered by the many manufacturing companies in and near Philadelphia and frequent inspection trips are made.

THE HAVERFORD-BRYN MAWR COMPUTING CENTER is housed in Hilles Laboratory. The Center contains an IBM 1620 computer with card input and output. The computer has a 20,000 decimal digit memory with an access time of 20 microseconds. Its speed is 1800 five-digit additions or 200 five-digit multiplications per second. The Center has in addition several key punches, a sorter, a reproducer, and a tabulator.

SHARPLESS HALL is occupied on the two lower floors by the Department of Physics. Here are situated the departmental library, laboratories, darkrooms, shops, and room for individual work. The Department has well equipped laboratories for advanced work in electronics, X-rays, atomic, nuclear and high energy physics. Recent grants have greatly expanded the precision electronics laboratory, and a loan of a sizeable quantity of uranium from the United States Atomic Energy Commission has made possible the construction of a sub-critical water-moderated nuclear reactor.

The upper floors house the Biology and Psychology laboratories, and the Biology library.

The Biology facilities include a new laboratory (the construction of which was subsidized by the Carnegie Corporation) for introductory cellular biology, a general laboratory for microbiology and biochemistry and three well equipped, modern laboratories for senior research in cellular physiology, comparative biochemistry, and physiological genetics.

The Psychology Department has a number of individual rooms for student experimental research projects and facilities for housing animals for laboratory work.

Natural History Collections

THE NATURAL HISTORY COLLECTIONS, presented to the College by a considerable number of interested friends, are displayed in Sharpless Hall through a gift of the Class of 1915.

Art Collection

A permanent art collection, including paintings and drawings by Homer, Inness, Pintorricchio, Sargent, and Whistler, is displayed in the Library.

Temporary exhibitions of paintings, drawings, and photographs are held from time to time at the College.

Framed reproductions of outstanding paintings and a few originals are available for loan to students at the beginning of each semester.

Music

In addition to a considerable collection of music scores, including the complete works of several composers, the special equipment of the Music Department consists of several pianos and a collection of scores, books, and phonograph records presented in 1933 by the Carnegie Corporation. This record collection has served as the basis for further acquisitions which are used for teaching and study purposes.

THE HENRY S. DRINKER MUSIC CENTER, located in the former home of William Wistar Comfort, provides offices, classrooms, and practice facilities for the Music Department, and houses the College's record collection and music library.

The larger concerts are held in Roberts Hall where a Steinway Grand and a Schlicker portable pipe organ are at the disposal of artists.

THE HAVERFORD COLLEGE FRIENDS OF MUSIC is an association of friends and neighbors of the College and faculty members, who, in cooperation with the Music Department, arrange a series of chamber music concerts which are held three or four times a year on Sunday afternoons in the Common Room.

Campus

THE ARBORETUM AND THE WOOLMAN WALK, the latter the gift of the late Edward Woolman, '93, contain a wide variety of woody plants, both indigenous and exotic, thus permitting direct observation and study by students of the natural sciences.

THE MARY NEWLIN SMITH MEMORIAL GARDEN, which adjoins the south side of the Library, while primarily developed as a decorative feature, contains a wealth of flowering shrubs of interest to the botanist.

Fellowships, Prizes and Honors

Fellowships

THE CLEMENTINE COPE FELLOWSHIP was established in 1899. The income is applied to "assisting worthy and promising graduates of Haverford College in continuing their studies at Haverford or at some other institute, in this country or abroad, approved by the Board of Managers. Candidates shall be nominated by the College Faculty to the Board of Managers."

The Faculty will nominate a First Cope Fellow and a Second Cope Fellow whose individual stipends, not to exceed \$1,000, will be determined by the Board.

Applications for the Clementine Cope Fellowship must be in the hands of the President not later than March 1, accompanied by whatever statement of extracurricular activities the candidate considers relevant.

Prizes

(All prizes awarded in books are marked with appropriate bookplates. As soon as possible after the award a list of standard books from which selection is to be made should be submitted for approval to the head of the department awarding the prize.)

ALUMNI PRIZE FOR COMPOSITION AND ORATORY.—A prize of \$50.00 was established by the Alumni Association in 1875 to be awarded annually for excellence in composition and oratory. Competition is open to Freshmen and Sophomores, but the same man may not receive the prize twice. The competition for this prize is administered by the Department of English.

JOHN B. GARRETT PRIZES FOR SYSTEMATIC READING.—A first prize of \$150.00 and a second prize of \$75.00 will be given at the end of the Sophomore, Junior or Senior year to the two students who, besides creditably pursuing their regular course of study, shall have carried on the most profitable program of reading in a comprehensive topic during a full college year.

Candidates for these prizes must register with the chairman of the department under whose supervision the work will be performed. The department is responsible for guiding the work and reporting the achievement to the Committee on Honors, Fellowships and Prizes for final judgment. Either or both of these prizes may be omitted if, in the judgment of the Committee, the work does not justify an award.

Interested students should apply directly to a relevant department for information.

THE CLASS OF 1896 PRIZES IN LATIN AND MATHEMATICS.—Two prizes of \$10.00 each, in books, to be known as "The Class of 1896 Prizes in Latin and Mathematics," were established by the bequest of Paul D. I. Maier of the Class of 1896. They are awarded at the end of the Sophomore year to the students who have done the best work in the departments concerned.

THE LYMAN BEECHER HALL PRIZE IN CHEMISTRY.—A prize of \$100.00 was established by the Class of 1898 on the twenty-fifth anniversary of its graduation, in honor of Lyman Beecher Hall, Professor of Chemistry at Haverford College from 1880 to 1917.

This prize may be awarded to a student who has attained a high degree of proficiency in Chemistry and who shows promise of contributing substantially to the advancement of that science. It may be awarded to a Junior, to a Senior, or to a graduate of Haverford College within three years after graduation. It may be awarded more than once to the same student, or it may be withheld.

THE CLASS OF 1902 PRIZE IN LATIN.—A prize of \$10.00 in books, is offered annually by the Class of 1902 to the Freshman whose work in Latin, in recitation and examinations combined, shall be the most satisfactory. At the discretion of the professor in charge of the Department, this prize may be omitted in any year.

THE DEPARTMENT PRIZE IN MATHEMATICS.—A first prize of \$30.00 and a second prize of \$20.00 are awarded on the basis of a three hour examination on selected topics in Freshman Mathematics. The examination is held annually on the first Monday after the Spring Recess, and is open to Freshmen only.

ELLISTON P. MORRIS AND ELIZABETH P. SMITH PEACE PRIZES.—These have been combined into a single competition offering three awards of \$200.00, \$100.00 and \$50.00 respectively. It is open to all undergraduates and to graduate students.

The prizes are awarded for the best essays bearing on the general topic of "Means of Achieving International Peace." Essays should be deposited with the Registrar before May 1. The judges shall be appointed by the President of the College.

Prizes will not be awarded if, in the opinion of the judges, a sufficiently high standard of merit has not been attained.

PRIZES IN PHILOSOPHY AND BIBLICAL LITERATURE.—A prize of \$40.00 and a second prize of \$25.00, in books, are offered annually to the students who, in the judgment of the professor in charge, do the most satisfactory outside reading in Philosophy in connection with the courses in that Department.

A prize of \$40.00 and a second prize of \$25.00, in books, are offered annually to the students who, in the judgment of the professor in charge, do the most satisfactory reading on the Bible and related subjects.

THE SCHOLARSHIP IMPROVEMENT PRIZES.—A first prize of \$50.00 and a second prize of \$45.00 are awarded at the end of the Senior year to the two students who, in the opinion of the judges appointed by the President of the College, show the most steady and marked improvement in scholarship during their college course.

THE FOUNDERS CLUB PRIZE.—A prize of \$25.00 is offered and awarded annually by the Founders Club to the Freshman who is judged to have shown the best attitude toward college activities and scholastic work.

THE S. P. LIPPINCOTT PRIZE IN HISTORY.—A prize of \$100.00 is offered annually for competition in the Department of History under the following general provisions:

First—Competition is open to Sophomores, Juniors, and Seniors who have taken or are taking work in the Department of History.

Second—The prize shall not be awarded twice to the same student.

Third—The prize may be withheld in any year if, in the opinion of the judges, a sufficiently high standard of merit has not been attained.

Fourth—An essay of not less than 5,000 words, written in connection with course or Honors work in History, or independently of course work, treating a subject selected with the approval of a member of the History Department, shall be submitted as evidence of scholarly ability in the collection and presentation of historical material. It shall be typewritten and deposited with the Registrar before May 1.

THE NEWTON PRIZE IN ENGLISH LITERATURE.—A prize of \$50.00 established by A. Edward Newton may be awarded annually on the basis of Final Honors in English, provided that the work of the leading candidate, in the judgment of the English Department, merits this award.

THE WILLIAM ELLIS SCULL PRIZE.—A prize of \$50.00, established in 1929 by William Ellis Scull, '83, is awarded annually to the upperclassman who shall have shown "the greatest achievement in voice and in the articulation of the English language." This prize is administered by the Department of English.

THE GEORGE PEIRCE PRIZE IN CHEMISTRY OR MATHEMATICS.—A prize of \$50.00 in memory of Dr. George Peirce, '03, is offered annually to a student of Chemistry or Mathematics "who has shown marked proficiency in either or both of these studies and who intends to follow a profession which calls for such preparation. Preference is to be given to a student who has elected organic chemistry, and failing such a student, to one who has elected Mathematics or some branch of Chemistry other than organic. Should there be two students of equal promise, the one who is proficient in Greek shall be given preference." The prize is offered, however, exclusively for students who have expressed the intention of engaging in research.

EDMUND J. LEE MEMORIAL AWARD.—Classmates of Edmund Jennings Lee, '42, who lost his life in the service of his country, have established in his memory a fund, the income for which is to be given annually to that "recognized undergraduate organization which has contributed most toward the furtherance of academic pursuits, extracurricular activities, spiritual growth, or college spirit in individuals or in the College as a whole during the year. The Award is to be used in continuing to render such service."

THE WILLIAM W. BAKER PRIZE IN GREEK.—A prize of \$25.00 in books, established in 1954 in memory of William W. Baker, Professor of Greek at Haverford College from 1904 to 1917, is given "in the study of Greek," and is administered by the Classics Department.

THE KURZMAN PRIZE IN POLITICAL SCIENCE.—A prize of \$125, established in 1958 by Harold P. Kurzman, is awarded annually for the senior who has performed best and most creatively in political science, except when in the judgment of the department no student has done work of sufficient merit to warrant such award.

THE THERESA HELBURN PLAYWRITING AWARD.—These awards, open to all students of Bryn Mawr College, are given by Theresa Helburn to encourage playwriting. The prize consists of \$100.00 for the best full-length play and \$50.00 for the best one-act play submitted each year and considered worthy. Original work is required; adaptations, translations and collaborations are not eligible. Haverford students in playwriting may submit manuscripts for these awards.

THE HAMILTON WATCH AWARD.—A fine Hamilton watch is awarded to that Senior, majoring in one of the Natural Sciences, Mathematics, or Engineering who has most successfully combined proficiency in his major field of study with achievements, either academic or extracurricular or both, in the Social Sciences or Humanities.

THE JOHN G. WALLACE CLASS NIGHT AWARD.—A silver cup to be awarded annually to the Best Actor in the Class Night performances.

HAVERFORD NEWS 50TH ANNIVERSARY AWARDS.—Four prizes established by a former editor of the HAVERFORD NEWS to be awarded annually at Commencement for a period of five years (1959-1963); 1) To the NEWS staff member writing the best editorial during the year, \$25; 2) To the staff member writing the best feature story, \$25; 3) To the staff member writing the best report on a public address given on the campus, \$25; 4) To the staff member writing the best account of a sports event, \$25.

Honor Societies

PHI BETA KAPPA.—The Haverford College Chapter of the Phi Beta Kappa Society of America was chartered in 1898 as Zeta of Pennsylvania. Election of members-in-course, Alumni members, and Honorary members, based upon scholarly attainment and distinction, takes place at the end of the academic year. *President*: Archibald MacIntosh, '21; *Vice-President*, Raymond T. Ohl, '21; *Secretary*, Harry W. Pfund, '22; *Treasurer*, Holland Hunter, '43.

FOUNDERS CLUB.—The Founders Club was established in 1914 as a Haverford organization of students, alumni, and Faculty. Election to its membership is recognition of a sound academic record combined with noteworthy participation in extra-curricular activities. Undergraduate elections are usually limited to the Junior and Senior classes. *President*: F. Thomas Hopkins, '49; *Vice-President*, George E. Ruff, '49; *Treasurer*, Arthur W. Leibold, '53; *Secretary*, Edwin M. Hartman, '63.

Honorable Mention

Honorable Mention in a single year course will be awarded at the end of the Freshman or Sophomore year, or at the end of the Junior or Senior year in any course outside a student's major field, for acceptable work in that course and additional work in the total amount of not less than seventy-five hours. Candidates for Honorable Mention must obtain a minimum average of 85 in the regular work of the year course and may be required to pass an examination on the additional work. Two courses of one semester each in the same department may be construed as a single course.

A student who has received the prescribed grade in the regular work of a course required for Honorable Mention, but who has not done the additional work required in connection with that course, may do so with the consent of the professor in charge during the succeeding year.

Final Honors

Final Honors are awarded to students who have undertaken and carried through academic work of high quality. Final honors are of two kinds, those awarded by departments and those awarded by the College.

A student who is considered to have the requisite ability is invited by his department to become an honors candidate as early as possible in the course of his major work. The exact nature of departmental honors work and the criteria used in judging it are listed in the departmental statements in this Catalog. For honors the work in the department must be considerably superior to that required for graduation. The student must demonstrate his competence, insight and commitment to his field of interest.

Individual departments may award *honors* to students whose departmental work has been of high quality and *high honors* to those who have demonstrated both high quality and originality, indicating an unusual degree of competence.

Students who have been awarded department honors may be invited by the Committee on Honors, Fellowships and Prizes to stand for College honors: *magna cum laude* or *summa cum laude*. *Magna cum laude* indicates that a student has understood to a superior degree the significant relations between the area of his own specialized competence and his College work as a whole. *Summa cum laude* indicates an even more outstanding achievement. *Magna cum laude* and *summa cum laude* are awarded by the faculty on recommendation of the committee.

The Committee on Honors, Fellowships and Prizes will fix the minimum academic standards and procedures acceptable in any year for *magna cum laude* and *summa cum laude* and may require oral and/or written examinations or essays.

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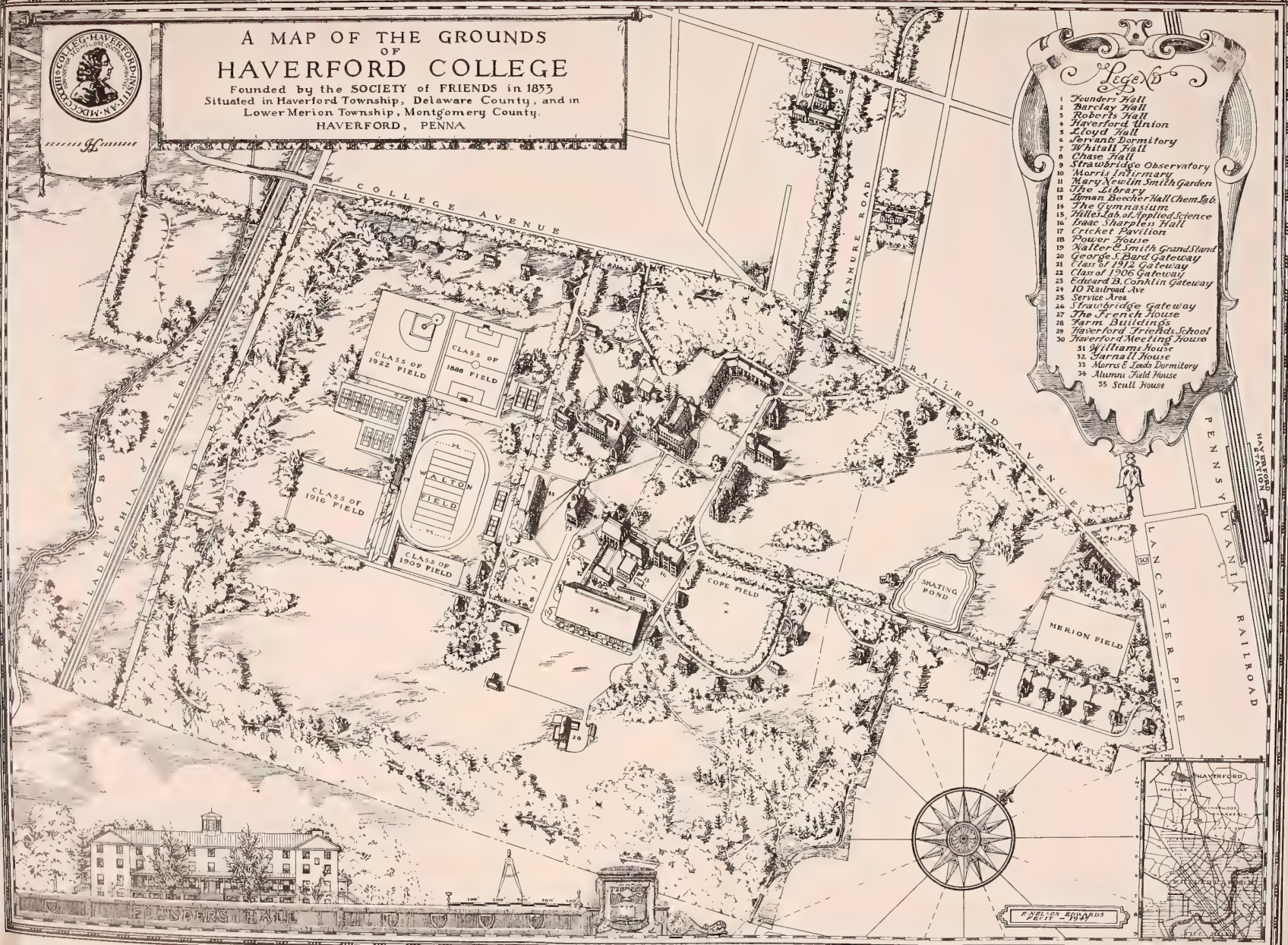


A MAP OF THE GROUNDS OF HAVERFORD COLLEGE

Founded by the SOCIETY OF FRIENDS in 1835
Situated in Haverford Township, Delaware County, and in
Lower Merion Township, Montgomery County,
HAVERFORD, PENNA.

Legend

- 1 Founders Hall
- 2 Barclay Hall
- 3 Roberts Hall
- 4 Haverford Union
- 5 Lloyd Hall
- 6 Servants Dormitory
- 7 Whitall Hall
- 8 Chase Hall
- 9 Straubridge Observatory
- 10 Morris Infirmary
- 11 Mary Newton Smith Garden
- 12 The Library
- 13 J. M. B. Hall Chem. Lab.
- 14 The Gymnasium
- 15 Hill's Lab. of Applied Science
- 16 Saxe Sharpless Hall
- 17 Cricket Pavilion
- 18 Power House
- 19 Walter & Smith Grandstand
- 20 George & Sons Gateway
- 21 Class of 1912 Gateway
- 22 Class of 1906 Gateway
- 23 Edward B. Conklin Gateway
- 24 10 Railroad Ave
- 25 Service Area
- 26 Straubridge Gateway
- 27 The French House
- 28 Farm Buildings
- 29 Haverford Friends School
- 30 Haverford Meeting House
- 31 Williams House
- 32 Jarvis House
- 33 Morris & Leeds Dormitory
- 34 Alumni Field House
- 35 Skull House





Faculty

1962-63

- ** CHARLOTTE ANDERSON *Lecturer in German*
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† Resigned, effective February 1, 1963.

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- DOUGLAS VAN STEERE *T. Wistar Brown Professor of Philosophy*
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Ph.D., Harvard University; D.D., Lawrence College; L.H.D., Oberlin College.
- ALFRED JULIUS SWAN *Professor of Music, Emeritus*
B.A. and M.A., Oxford University.

* Absent on leave, 1962-63.

** Second semester, 1962-63.

*** Absent on leave, second semester.

- HOWARD MORRIS TEAF, JR. *Professor of Economics*
B.S. in Economics, M.A. and Ph.D., University of Pennsylvania.
- CRAIG RINGWALT THOMPSON *Professor of English and History*
A.B., Dickinson College; A.M. and Ph.D., Princeton University.
- ROBERT IRVING WALTER *Associate Professor of Chemistry*
B.S., Swarthmore College; M.A., Johns Hopkins University; Ph.D., University
of Chicago.
- ROBERT C. WILLIAMSON *Visiting Associate Professor of Sociology*
B.A. and M.A., University of California at Los Angeles; Ph.D., University of
Southern California.
- NORMAN MONTGOMERY WILSON *Assistant in Engineering*
- FRANK HOOD YOUNG *Instructor in Mathematics*
B.A., Haverford College.
- ELIZABETH GOULD ZENN *Visiting Associate Professor of Classics*
B.A., Allegheny College; M.A. and Ph.D., University of Pennsylvania.

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BULLETIN



1962—1963

HAVERFORD, PENNSYLVANIA

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1962-1963

****** Laboratory notebooks must be turned in not later than the scheduled time of the examination in the course. Late notebooks will receive no credit unless arrangements have been made *in advance* with the instructor in the course and the Dean. In courses which have no scheduled examination, notebooks must be turned in by 4 P.M. on Tuesday of the final week of the examination period.

1962

	S	M	T	W	T	F	S		S	M	T	W	T	F	S
Sept.							1	Nov.					1	2	3
	2	3	4	5	6	7	8		4	5	6	7	8	9	10
	9	10	11	12	13	14	15		11	12	13	14	15	16	17
	16	17	18	19	20	21	22		18	19	20	21	22	23	24
	23	24	25	26	27	28	29		25	26	27	28	29	30	
	30														
Oct.		1	2	3	4	5	6	Dec.							1
	7	8	9	10	11	12	13		2	3	4	5	6	7	8
	14	15	16	17	18	19	20		9	10	11	12	13	14	15
	21	22	23	24	25	26	27		16	17	18	19	20	21	22
	28	29	30	31					23	24	25	26	27	28	29
									30	31					

1963

	S	M	T	W	T	F	S		S	M	T	W	T	F	S
Jan.			1	2	3	4	5	Apr.		1	2	3	4	5	6
	6	7	8	9	10	11	12		7	8	9	10	11	12	13
	13	14	15	16	17	18	19		14	15	16	17	18	19	20
	20	21	22	23	24	25	26		21	22	23	24	25	26	27
	27	28	29	30	31				28	29	30				
Feb.						1	2	May			1	2	3	4	
	3	4	5	6	7	8	9		5	6	7	8	9	10	11
	10	11	12	13	14	15	16		12	13	14	15	16	17	18
	17	18	19	20	21	22	23		19	20	21	22	23	24	25
	24	25	26	27	28				26	27	28	29	30	31	
Mar.						1	2	June							1
	3	4	5	6	7	8	9		2	3	4	5	6	7	8
	10	11	12	13	14	15	16		9	10	11	12	13	14	15
	17	18	19	20	21	22	23		16	17	18	19	20	21	22
	24	25	26	27	28	29	30		23	24	25	26	27	28	29
	31								30						

College days in heavy-face type.

CALENDAR OF EVENTS

1962-63

September

18	New students arrive
20 - 21	Registration
22	Mixer at Bryn Mawr
24	Opening Collection
25	Classes begin
28	Movie
29	Football - Wagner (at home)
	All College Mixer

October

3	Soccer at Princeton
5	Movie
6	Football at Dickinson
	Soccer - Franklin & Marshall (at home)
	Cross Country - P.M.C. (at home)
	Bryn Mawr Freshman hall plays
12	Lantern Night at Bryn Mawr
13	Football at Johns Hopkins
	Soccer at Stevens
	Cross Country at F & M, also with Johns Hopkins
	Three College Lecture & Symposium (afternoon)
	Movie, followed by Three College Mixer (evening)
19 - 20	Sophomore Weekend
19	Soccer - Lehigh (at home)
	Junior Show at Bryn Mawr
20	Football - open date
	Cross Country at Lafayette
	Sophomore Dance - Gymnasium
27	Homecoming Weekend
	Football - Hamilton (at home)
	Soccer - Penn (a.m. at home)
	Cross Country at Lehigh
	Art Series Concert
31	Soccer at Ursinus
	Cross Country at Albright

November

3	Parents' Day
	Football - Ursinus (at home)
	Soccer - La Salle (at home)
	Cross Country - Moravian and Temple (at home)
	Glee Club with Connecticut College
8	Art Series Concert
10	Football at Wilkes
	Soccer at P.M.C.
	Cross Country - Swarthmore (at home)
	Movie - 8:00 p.m.

November		
	10	Square Dance - 10:00 p.m.
		Glee Club at Connecticut College
	11	Friends of Music
16 -	17	Varsity Club Weekend
		(Swarthmore Weekend)
	16	Pep Rally, 7:00 p.m.
		Drama Club at Bryn Mawr, 8:30 p.m.
	17	Swarthmore Day
		Soccer - Swarthmore (a.m. at home)
		Football - Swarthmore (p.m. at home)
		Drama Club at Bryn Mawr, 7:30 p.m.
		Varsity Club Dance, 9:00 in the Dining Room
21 -	26	Thanksgiving Recess
	30	Orchestra Concert
December		
	1	Basketball - Drew (2:30 p.m. at home)
		Movie (evening)
	5	Basketball - Pharmacy (at home)
	7	Arts Night at Bryn Mawr
	8	Basketball - Johns Hopkins (at home)
		Wrestling - Delaware (2:30 p.m. at home)
	9	Christmas Concert at Bryn Mawr
	10	Glee Club Christmas Collection - Concert and Party
	12	Basketball - P.M.C. (evening at home)
		Wrestling - Albright (4:00 p.m. at home)
		Swimming at P.M.C. - 3:30 p.m.
	14	Fencing - Princeton (at home)
		Basketball at Moravian - 7:30 p.m.
	15	Classes end - Noon
January		
	3	Classes resume - 8:00 a.m.
	4	Movie
	5	Basketball at Ursinus
		Wrestling at Ursinus
		Fencing at Rutgers
	9	Basketball - Drexel (at home)
		Swimming - P.M.C. (at home)
	12	Basketball - Stevens (2:30 p.m. at home)
		Wrestling at Johns Hopkins
		Fencing at Muhlenberg
		Arts Series Concert (evening)
	13	Freshman Glee Club with Centenary College
	16	Basketball at Delaware Valley
		Swimming - Drexel (7:00 p.m. at home)
19-Feb.	2	Mid-year Exam period
	19	Movie
	26	Movie
February		
	4	Second Semester begins
	6	Basketball - Ursinus (at home)
		Fencing - Lehigh (at home)

February

- 8 Arts Series Concert (tentative)
- 9 Movie
- Basketball - Swarthmore (at home)
- Wrestling - Drexel (at home)
- Fencing - Temple (at home)
- Swimming - Drexel (at home)
- 10 Friends of Music
- 13 Basketball at Drexel
- Wrestling - Wagner (at home)
- Fencing at Lafayette
- 16 Basketball at P.M.C.
- Wrestling at P.M.C.
- Fencing at Stevens
- Glee Club with Douglas College
- 20 Basketball - F & M (at home)
- Swimming at Temple
- 22 Orchestra Concert at Bryn Mawr
- 23 Basketball at Swarthmore (Hood Trophy game)
- Wrestling at Swarthmore
- Fencing - Johns Hopkins (at home)
- 27 Swimming - Swarthmore (at home)

March

- 1 Movie
- 2 Glee Club at Douglas College
- 3 Friends of Music
- 7 - 9 Junior Weekend
- 7 & 8 Class Night
- 9 Junior Dance in the Dining Room
- 15 & 16 Drama Club at Bryn Mawr
- 22 Movie
- 23 Spring Vacation begins (noon)

April

- 1 Spring Vacation ends (8:00 a.m.)
- Note: (Bryn Mawr Vacation - March 29 to April 8)
- 3 Baseball - P.M.C. (at home)
- Track - F & M (at home)
- Golf at F & M (also with Lehigh)
- 5 Movie
- 6 Baseball - St. Joseph's (at home)
- Track - Albright and Lycoming (at home)
- Tennis at Moravian
- 6 & 7 Freshman Glee Club at Roland Park
- 7 Friends of Music
- 10 Golf - Moravian (at home)
- Baseball at Ursinus
- Track at Ursinus
- Tennis - Rutgers (at home)
- 12 - 13 Freshman Weekend
- 12 Orchestra
- 13 Baseball - Drexel (at home)
- Track - Lehigh (at home)
- Tennis at Johns Hopkins
- Freshman Dance in the Gymnasium
- 17 Baseball - Eastern Baptist (at home)

April

- 17 Golf at Delaware (also with St. Joseph's)
Tennis at La Salle
- 19 Glee Club at Bryn Mawr
Golf - P.M.C. and West Chester (at home)
- 20 Baseball at Drexel
Tennis - Ursinus (at home)
Movie
- 24 Baseball at La Salle
Track at P.M.C.
Tennis - Lehigh (at home)
- 26 - 27 Tri-College Weekend
- 26 Arts Series Concert
Golf - Swarthmore (at home)
- 27 Baseball - Textile (at home)
Tennis - Bucknell (at home)
Tri-College Dance in the Field House

May

- 1 Baseball - Pharmacy (at home)
Golf - Drexel and La Salle (at Valley Forge)
Tennis - Lafayette (at home)
- 3 Movie
- 4 Alumni Day
Baseball - Swarthmore (at home)
Track at Swarthmore
Tennis at Swarthmore
- 8 Baseball - Eastern Baptist (at home)
Tennis at F & M
- 10 Golf at Temple (also with Lafayette)
- 10 - 11 Drama Club
- 11 Baseball - Ursinus (at home)
Tennis - Pennsylvania (at home)
- 15 Baseball at P. M. C.
Tennis at Drexel
- 18 Classes end
Movie
- 25 Movie

June

- 7 Commencement

FRESHMAN CLASS

Ambler, Bruce A.
 Auerbach, Stephen D.
 Baker, Alan R.
 Balber, Andrew E.
 Becker, Paul E.
 Blachly, Hugh A.
 Bongiovanni, Joseph N., III
 Bonime, Stephen
 Bonnell, Thomas H.
 Bowers, Bradley N.
 Bush, Howard U.
 Campbell, Carlos C., III
 Carson, Dennis A.
 Cauffman, David P.
 Chase, Cornelius C.
 Christy, Thomas E.
 Clews, Henry M.
 Clouse, Kenneth A.
 Coleman, Mark S.
 Cooper, John F.
 Cottrell, Freeman B.
 Crane, Arthur D.
 Curley, Stephen C.
 Davis Doyle B.
 Davis, Lawrence C.
 Davis, Richard W.
 de Schweinitz, Clark C.
 Dodson, Don C.
 Dowds, Mark W.
 Dye, Christopher deR.
 Eaton, Roger W.
 Eisenberg, Robert A.
 Elliott, David F.
 Eyer, Joseph
 Feinland, Robert P.
 Feinsod, Ethan L.
 Felsen, David M.
 Fernsler, Richard F.
 Fritchley, Rodney B.
 Fumia, Fred D.
 Garahan, James C.
 Ghigo, Francis D.
 Graves, J. Robert
 Gray, Thomas O.
 Grossman, Richard L.
 Gutman, Roy W.
 Hanse, Jeffrey N.
 Hartner, Ernst G.
 Hazzard, Edmund T.
 Hedgepeth, Michael S.
 Heimbach, James T.
 Hershey, P. Andrew
 Hicks, H. Munson, Jr.
 Hillier, Robert I.

Hillman, Robert L.
 Hoberman, John M.
 Hoover, John
 Hopkins, Samuel G.
 Horwitz, Tem H.
 Hoskins, Thomas R.
 Hume, Robert D.
 Idell, David R.
 Jackson, J. Lance F.
 Johnson, J. Theodore, Jr.
 Kane, David N.
 Keenan, Michael V.
 Kurtz, Bryan H.
 Lutton, E. Clyde, II
 Lyon, William G.
 Macbride, Thomas H., III
 Macpherson, George S.
 Manoff, Robert K.
 McCargar, Robert D.
 McCune, David P., IV
 McKeehan, P. Michael
 Meeks, John C.
 Melby, Christopher H.K.
 Meroney, William A
 Meyer, Henry H., III
 Miller, Paul R.
 Mills, Charles C.
 Moore, Stephen C.
 Morgan, Jeffrey H.
 Mueller, Christopher B.
 Murphy, Daniel R.
 Oldmixon, Eben H.
 Parker, David C.
 Phillips, William F.
 Pierce, John D.
 Pile, Wilson H., Jr.
 Pleatman, Andrew F.
 Price, Eric M.
 Punzak, Michael E.
 Raphael, Alan H.
 Rawlings, Hunter R., III
 Read, Walter P.
 Reichardt, Thomas C.
 Rich, Denison Y.
 Riggan, John R.
 Roberts, Norbert J., Jr.
 Robinson, Marshall O.
 Rohlfs, Richard M.
 Rosner, Anthony L.
 Ross, Steven E.
 Rozental, Andre
 Salisbury, Brian
 Salner, David W.
 Satterthwait, Arnold C.

Saylor, Tillman K., III
 Schachterle, Lance E.
 Schacter, Lee P.
 Schatzki, Michael
 Schmidt, Richard A.
 Schwarz, Ronald A.
 Schwertfeger, Gerald C.
 Sechler, Robert P., Jr.
 Slotkin, Mark I.
 Stern, Gary D.
 Stetler, Russell D., Jr.
 Strieb, Melvin I.

Taylor, Peter L.
 Tunnell, W. Keith
 Ullman, Jackson E.
 Umland, Berthold E.
 Walker, Harold S., III
 Warlow, Michael C.
 Wertime, Steven F.
 Wheeler, Jonathan
 Williams, Hugh H.
 Wolfinger, Charles H., Jr.
 Young, S. Stanley

SOPHOMORE CLASS

Adelman, Richard L.
 Anthony, Lewis E.
 Bagby, George F., Jr.
 Balderston, R. Davis
 Baskerville, Robert A.
 Bazelon, Richard L.
 Becker, William L.
 Berland, Kerry S.
 Berrien, Steven
 Berson, Robert J.
 Blair, T. Ashton
 Brookes, David G.
 Brous, Hubert W.
 Brown, Thomas S., Jr.
 Bunim, Michael B.
 Busey, David M.
 Carson, Reed W.
 Chace, Jonathan
 Cobbs, John L.
 Cole, Peter
 Cordi, Stephen M.
 Crooks, Geoffrey L.
 Dean, William W.
 Elmer, Robert E.
 Elms, J. Jay
 Falls, William F.
 Flaccus, David W.
 Flachbarth, Charles T.
 Flinker, Norman
 Forkin, Daniel
 Fox, Haigh P.
 Frank, Charles W.
 Fraser, David W.
 Freeman, Thomas P.
 Friedman, Walter
 Fry, W. Reed, III
 Gage, Hugh R.
 Gallway, Robert A.
 Garson, James W.
 Gillingham, Robert F.
 Griffiths, David W.
 Gruen, Robert C.

Haberkern, Roy C., III
 Hawkins, Philip H.
 Hipkens, Robert W.
 Holzer, Charles E., III
 House, James S.
 Hsu, George S.
 Inui, Thomas S.
 Johanson, S. Frederic
 Johnston, J. William, Jr.
 Kac, Michael B.
 Kagiri, Samuel N.
 Kanes, Lee S.
 Kasser, Stephen J.
 Kies, David M.
 Kimesera, Victor P.
 Lawrence, Charles R.
 Lee, Lloyd C.
 Lehman, Jonathan E.
 Letts, Laurence A.
 Liechty, Thornton A.
 Liem, G. Ramsay
 Lippard, Thomas E.
 Livingston, James B.
 MacBride, J. Douglas
 Mattick, Paul
 Morris, Harold H., III
 Morris, Richard A.
 Moskovitz, Peter A.
 Nelson, C. M. Kinloch
 Nichols, George C.
 Ogundipe, Olufemi O.
 Pancoast, Howard W.
 Parkinson, John S.
 Perisho, Robert C.
 Peterson, Robert F., Jr.
 Petzinger, Robert C.
 Phelps, Andrew R.
 Polster, David F.
 Pritchard, Stanford M.
 Rainey, Michael L.
 Reuben, Walter K.
 Rignall, Charles E.

Rosso, John P.
 Salazar, Jorge E.
 Sarver, Eugene
 Schack, Robert J.
 Schrank, W. Winslow
 Scoll, Jonathan P.
 Sifferlan, Allan P.
 Simmons, Robert R.
 Smith, Griffith G., Jr.
 Sonnenborn, Donald E.
 Spencer, Harrison C.
 Steer, Robert A.
 Stept, Michael E.
 Stern, Roland C.
 Stevens, Michael N.
 Stites, Clay Van E.
 Taylor, James F.

Toan, Robert W.
 Tuber, Joel A.
 Van Brunt, John, III
 VanNewkirk, Philip E.
 Vernon, Richard G.
 von Ranson, Jonathan J.
 Wallon, Lewis A., Jr.
 Watson, John W.
 Webster, Stephen H.
 Weil Frederick W.
 Whitman, Walt H.
 Woodward, Robert S., IV
 Yelon, William B.
 Youman, Ion O.
 Young, Clifton A.
 Zapp, John A., III

JUNIOR CLASS

Aird, John C.
 Andrews, Edward S.
 Bates, Robert H.
 Berman, Bernard J.
 Birmingham, Lewis W.
 Bockol, Richard M.
 Brinton, Keith
 Bundy, James F.
 Carson, Frederick G.
 Chamberlin, John S.
 Coblantz, Jay M.
 Cook, Michael J.
 Cooper, Richard M.
 Couch, George N.
 Dallolio, Stephen J.
 Darnell, John H.
 De Wilde, Daniel N.
 Donaldson, James O., III
 Dott, Andrew B., III
 Eisele, John W.
 Ellis, John R.
 Fales, Evan M.
 Filstrup, Edward C.
 Glass, Christopher C.
 Gordon, John A.
 Harshaw, Edward, II
 Henderson, Phillip L.
 Hogenauer, Daniel O.
 Hopper, Paul T.
 Ings, William C.
 Jackson, David M.
 Jacobs, Christopher
 Kabat, Jonathan P.
 Larkin, E. Daniel
 Leppik, Ilo E.
 Lerner, David E.

Levin, Murray S.
 Lewis, Charles D., III
 Lob, Eric
 Lucas, Peter W.
 Luke, Richard F.
 Macan, William A., IV
 Macmillan, Neil A.
 Major, John S.
 Malandra, William W.
 McDougal, Stuart Y.
 Mick, Robert L.
 Mitchell, R. Garrett
 Moore, Donald R.
 Munger, Robert S., Jr.
 Nelson, Michael S.
 Nevin, Michael P.
 Olton, David S.
 Oyelaran, Olasope O.
 Pearlstine, I. Norman
 Ratajczak, Donald
 Reinfeld, Don J.
 Richardson, Robert F.
 Riordan, Robert C.
 Ritchey, Lawrence I.
 Robertson, Richard A.
 Robinson, Peter S.
 Rogerson, Allen C.
 Ruppenthal, John B.
 Salmen, Lawrence F.
 Sargent, George A., III
 Schamberg, Jay F.
 Scherer, Peter W.
 Schotz, E. Martin
 Seagren, Barry D.
 Shafer, William A.
 Shapiro, Ronald M.

Shuman, Robert M.
Silvers, David N.
Smiley, Daniel C.
Smith, Edward J., Jr.
Smoluk, John R.
Snow, Robert M.
Snyder, William B.
Sonnenborn, Monroe R.
Spaeth, J. Douglas
Sterrett, Timothy S.
Stewart, Charles V.
Stulting, Harry C.
Sunderman, Joel B.
Todaro, Michael P.
Tomaro, John B.

Transue, Jacques H.
VanBerg, Richard P.
Ward, Stephen A.
Wertime, Richard A.
Westberg, Russell E.
Whittington, DeWitt P.
Wilcox, Homer B., III
Williams, Eliot P.
Williams, John A.
Williamson, Alan B.
Wolin, Steven A.
Wood, Arthur S.
Yaffe, David L.
Zangerle, John A.

SENIOR CLASS

Andrews, Raymond W., Jr.
Auer, Lawrence H.
Barber, G. Putnam
Barlow, Barry H. A.
Beik, William H.
Belanger, Terry B.
Bernheimer, Charles C.
Blumberg, Herbert H.
Blumenthal, James D.
Bowles, Francis P.
Carroll, John S.
Cole, John R.
Conn, Charles B., III
Cook, John R.
Crane, Alan T.
Crawford, Dan D.
Daneker, David C.
Darlington, Horace F., Jr.
David, S. Roy
deRis, G. Raymond
Deshong, Howard C., Jr.
Dorwart, William V., Jr.
Eddy, Peter A.
Ettinger, Stephen J.
Ezerman, Robert H.
Fasoldt, Ranson C.
Flanders, Steven
Foerster, Bruce S.
Franklin, Joseph E., Jr.
Geddes, James F., Jr.
Ghiglione, Loren F.
Gilbert, Ian R.
Gillam, B. Scott
Grambs, Jeffrey W.
Hall, David B.
Hammaker, Wayne E.
Hartman, Edwin M.
Herzel, Roger W.

Heuss, John F.
Hilliard, Kirk L., Jr.
Hiltebeitel, Alfred J.
Hollander, Sidney
Houston, George W.
Houston, John D., II
Hunt, David
Johnson, John P.
Johnson, Stephen C.
Kannerstein, Gregory
Kelley, William S.
Kohn, Roger L.
Lary, Peter Hal
Lawn, W. Geoffrey
Lederberg, Bernard
Lehner, Andreas P.
Leonard, David K.
Levi, William G.
Levitt, Stuart L.
Liesveld, John H., Jr.
Lipez, Kermit V.
MacRae, James B., Jr.
Margolis, John D.
Maruyama, Shunji
McConaghy, John S., Jr.
Mechling, William H., III
Miller, Robert F.
Moyer, Paul R.
Noell, K. Thomas
Nolte, Robert W.
Norberg, H. Peter
Northrup, Ernest T.
Phillips, William H.
Pollard, Frank H.
Powers, Charles W.
Quill, E. Spencer
Quint, Arnold H.
Raach, Frederick E.

Riggan, William G.
Roberts, John H.
Rose, Timothy L.
Ruberg, Robert L.
Ruff, John D.
Schulze, Joseph R.
Schweitzer, Thomas M.
Schwentker, Edwards P.
Shafer, Stephen J.
Shermer, William B.
Siegel, Andrew
Sinclair, Paul F.
Smith, Charles W.
Smith, George P.
Smith, Kent G.
Smith, Stephen S.
Spiegel, Adam

Stanley, Frank J., III
Stavis, Benedict R.
Stone, Alan N.
Taylor, Joseph H., Jr.
Thrall, Charles A.
Unger, Richard W.
Van Denbergh, Ross
Vincent, Anthony F.
Walton, Anthony J.
Weber, Michael J.
Werner, Michael W.
White, Robert A.
Wichura, Michael J.
Williams, Lindsley
Winterer, Joerg C.
Wood, John S.
Worth, Fred R., III

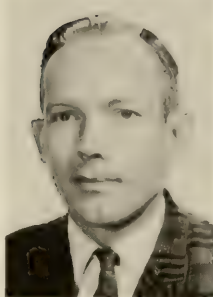
Administration



W.W. AMBLER



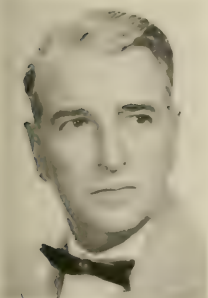
W.C. BAKER



B. BOLLAS



P.G. BENNETT



H. BORTON



E.B. BRONNER



W.E. CADBURY



A. CASELLI



F.D. COMFORT



B. KRATZ



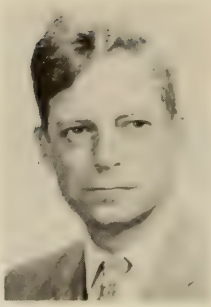
W. LANDER



A. MAC INTOSH



M.R. NUGENT



C. PERRY



W.E. SHEPPARD



C.R. THOMPSON

Faculty



M. J. ASENSIO



J. ASHMEAD



P. W. BELL



T. A. BENHAM



W. BREWSTER



J. BROOKS



R. H. BUTMAN



H. J. CADBURY



J. CARY



J. P. CHESICK



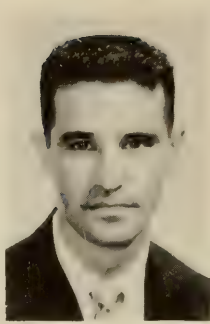
H. COMFORT



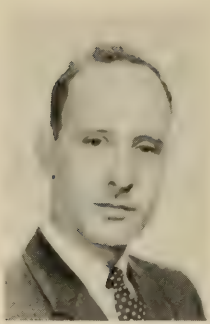
B. COOK



GUY DAVENPORT



WM.C.DAVIDON



J.DAVIDSON



F.DE GRAAFF



P. DESJARDINS



A.DIAMANT



W. DOCHERTY



H.C.DUNATHAN



I.FINGER



J. FOWLE



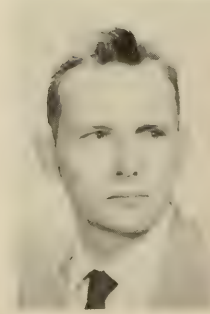
M. GUTWIRTH



M. GUTWIRTH



PAUL HARE



D. HEATH



G.A.HEISE



T.B.HETZEL



C. HOLBROW



L.B. HOLLAND



C. HOLMES



D. HUSEMOLLER



V.L. INGRAHAM



G.A. KENNEDY



L.A. KOSMAN



J.A. LESTER



A. LOEWY



ELEANOR MAASS



W. MAC CAFFREY



M.J. MATHIES



C. OAKLEY



SYDNEY PERLOE



H. PFUND



E. PRUDENTE



F. QUINN



R. RANDALL



W. REESE



E. S. ROSE



O. RUDOLPH



R. SARGENT



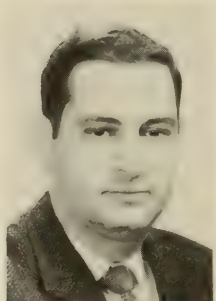
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F. SELOVE



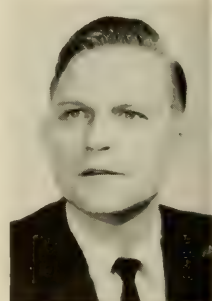
E. SHOWALTER



E. SMOLENSKY



J. SPANIER



G. E. SPIEGLER



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F. TURNER



R.I.WALTER



R.C.WILLIAMSON



N.M.WILSON

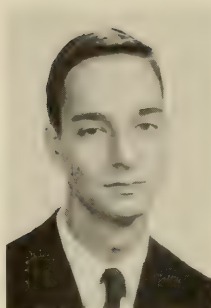


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Seniors



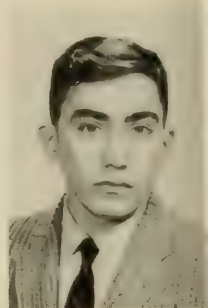
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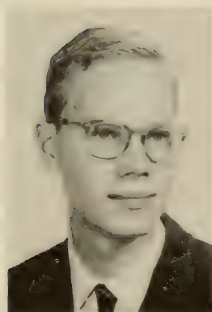
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G.P. BARBER



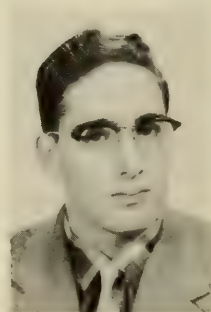
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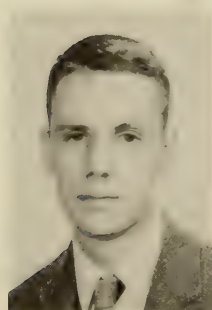
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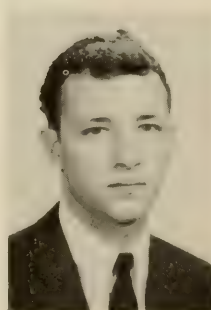
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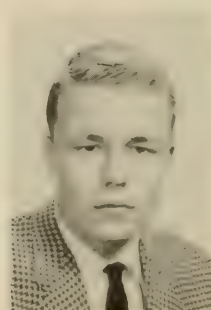
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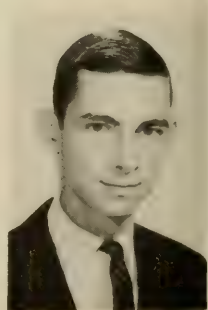
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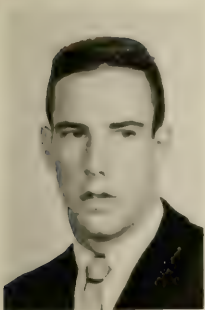
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J.S. CARROLL



J.R. COLE



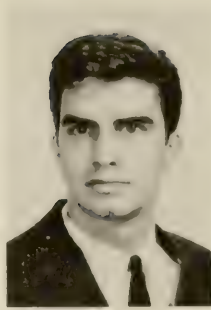
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J.R. COOK



A.T. CRANE



D. CRAWFORD



D.C. DANEKER



H. DARLINGTON



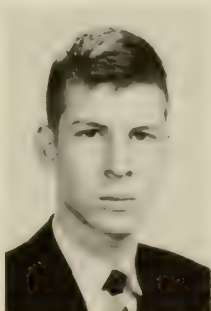
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H.C. DESHONG



W.V. DORWART



P.A. EDDY



S.J. ETTINGER



R.H. EZERMAN



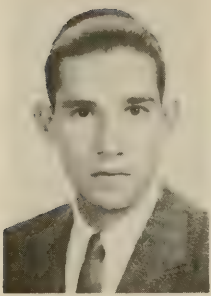
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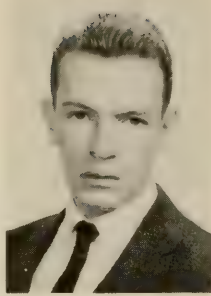
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B.S. FOERSTER



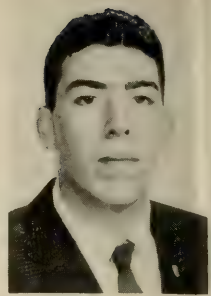
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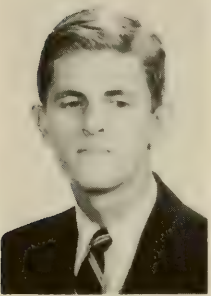
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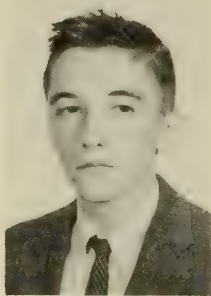
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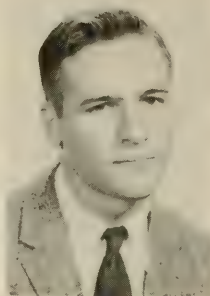
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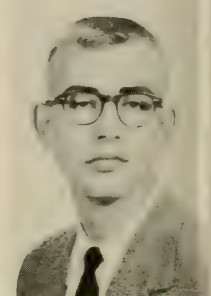
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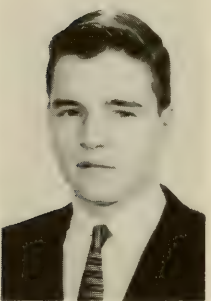
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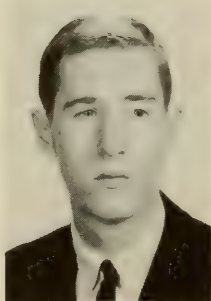
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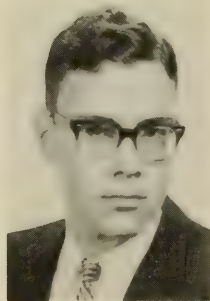
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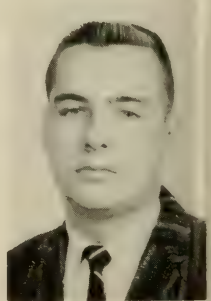
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R.W.HERZEL



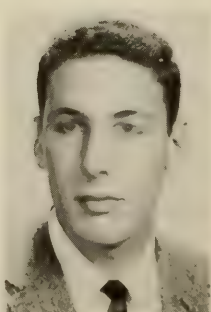
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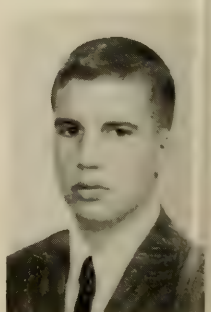
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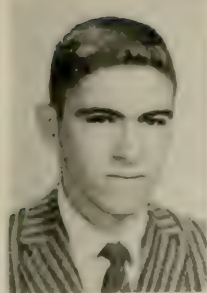
S.HOLLANDER



G.W.HOUSTON



J.D.HOUSTON



D. HUNT



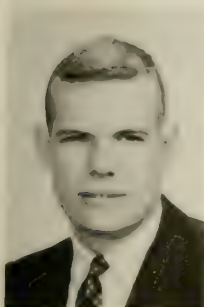
J. P. JOHNSON



S. C. JOHNSON



G. KANNERSTEIN



W. S. KELLEY



R. L. KOHN



P. H. LARY



W. G. LAWN



A. LEDERBERG



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D. K. LEONARD



W. G. LEVI



S. L. LEVITT



J. H. LIESVELD



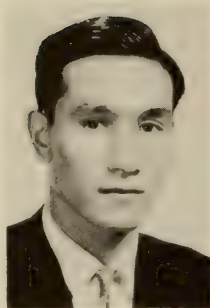
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J. B. MAC RAE



J.D.MARGOLIS



S.MARUYAMA



J.S.MC CONAGHY



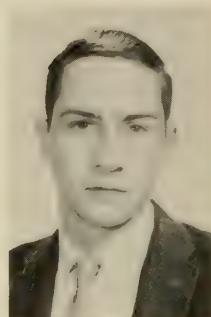
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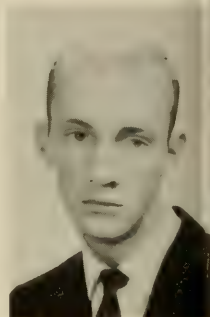
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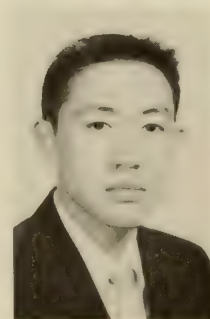
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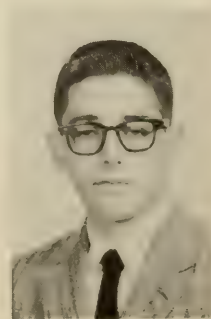
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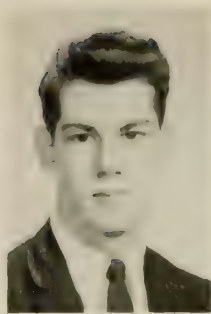
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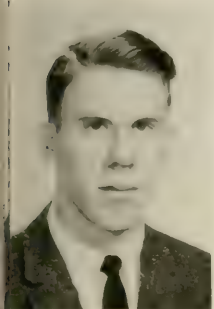
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T.L. ROSE



R.L. RUBERG



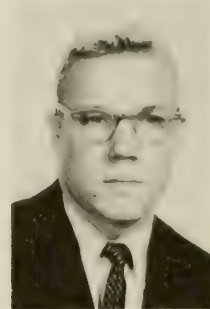
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J.R. SCHULZE



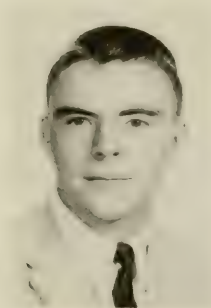
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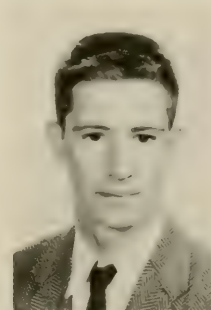
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P.F. SINCLAIR



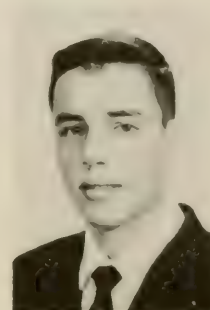
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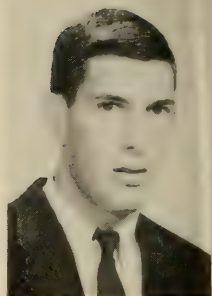
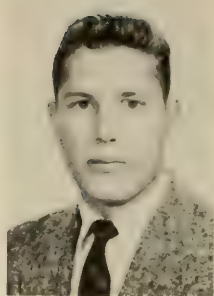
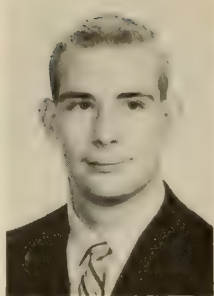
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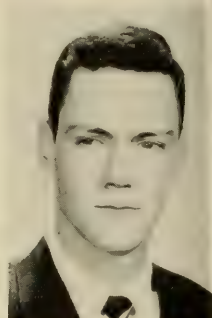
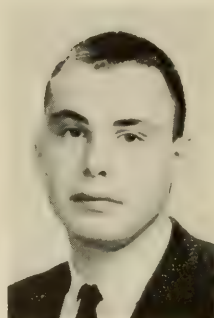


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B. R. STAVIS

A. N. STONE

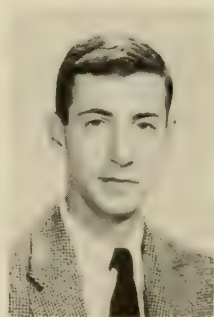


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C. A. THRALL

R. W. UNGER

R. VAN DEN BERGH

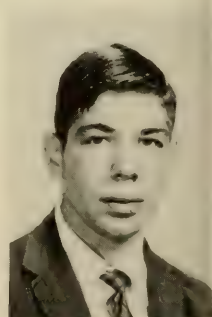
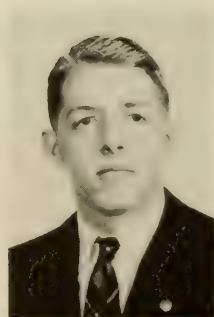


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A. J. WALTON

M. J. WEBER

M. W. WERNER



R. A. WHITE

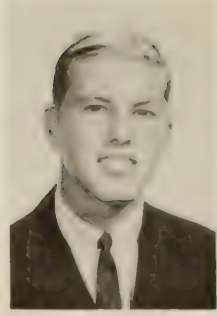
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L. WILLIAMS

J. C. WINTERER



J.S.WOOD

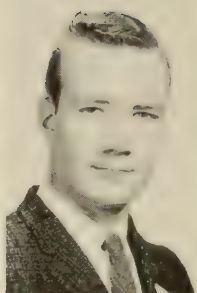


F.R.WORTH

Juniors



J.C. AIRD



E.S. ANDREWS



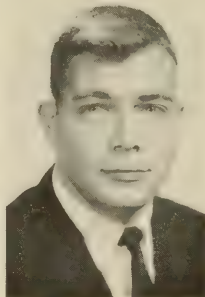
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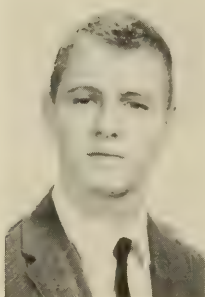
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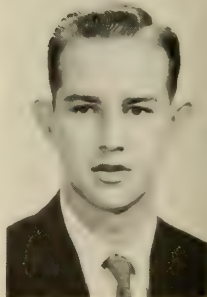
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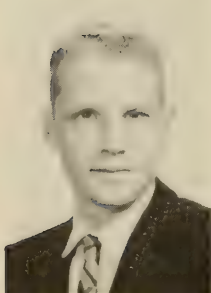
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KEITH BRINTON



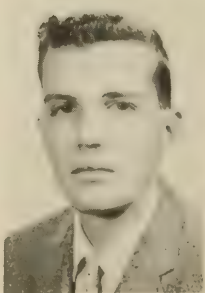
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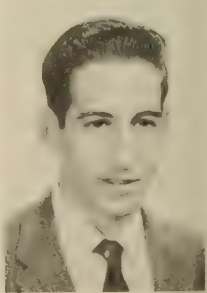
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J.S. CHAMBERLIN



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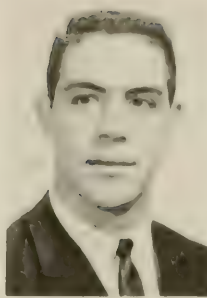
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R.M.COOPER



G.N.COUC



S.J.DALLOLIO



J.H.DARNELL



D.N.DE WILDE



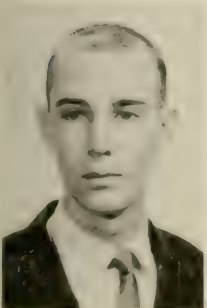
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A.B. DOTT



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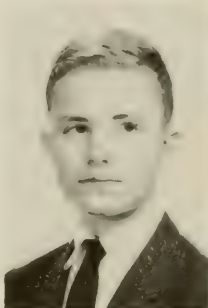
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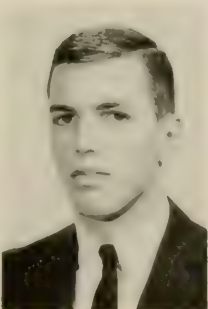
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C.C.GLASS



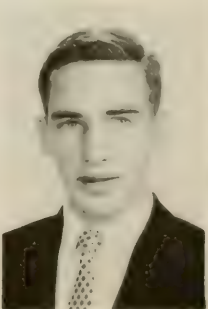
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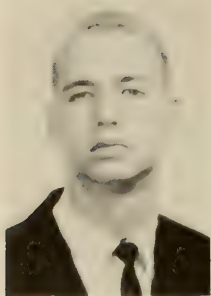
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D.HOGENAUER



P.T.HOPPER



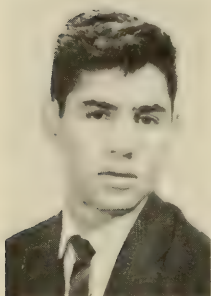
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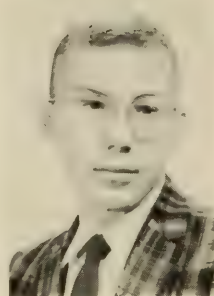
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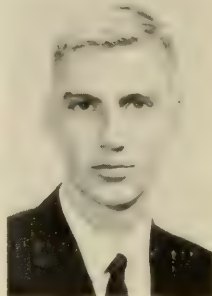
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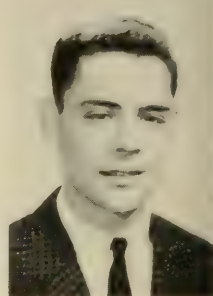
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E.D.LARKIN



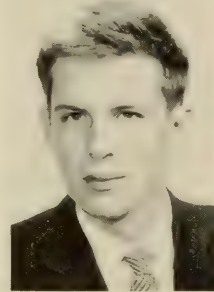
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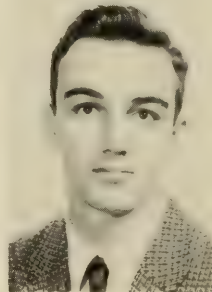
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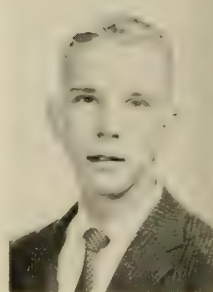
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C.D.LEWIS



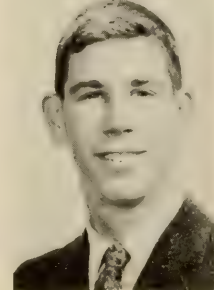
E.LOB



P.W.LUCAS



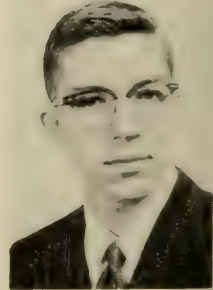
R.F.LUKE



W.A.MACAN



N.A.MAC MILLAN



J.S.MAJOR



W.W.MALANDRA



S.Y.MC DOUGAL



R.L.MICK



R.G.MITCHELL



R.S.MUNGER



D.R.MOORE



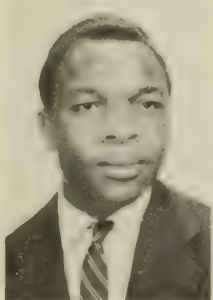
M.S.NELSON



M.P.NEVIN



D.S.OLTON



O.O.OYELARAN



I.N.PEARLSTINE



D.RATAJCZAK



D.J.REINFELD



R.F.RICHARDSON



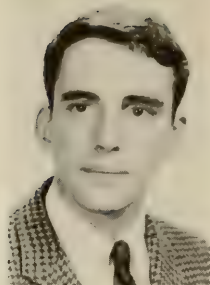
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L.I.RITCHEY



R.A.ROBERTSON



P.A.ROBINSON



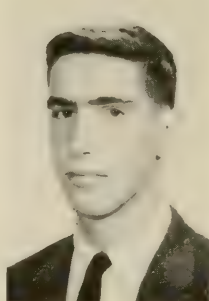
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L.F.SALMEN



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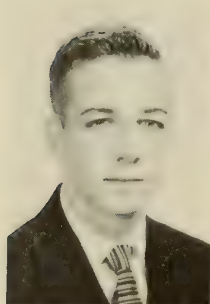
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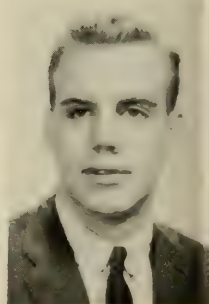
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W.A.SHAFER



R.M.SHAPIRO



R.N.SHUMAN



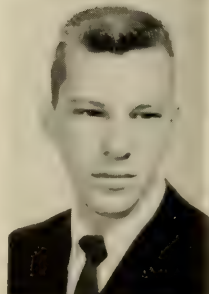
D.N.SILVERS



D.C.SMILEY



E.J.SMITH



J.R.SMOLUK



R.M.SNOW



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M.R.SONNENBORN



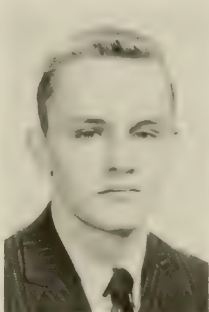
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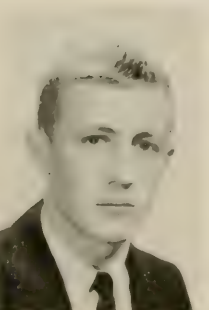
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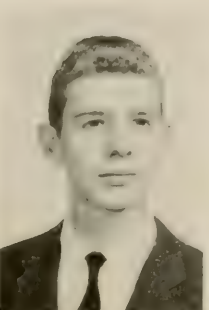
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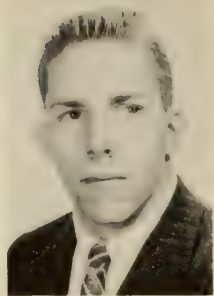
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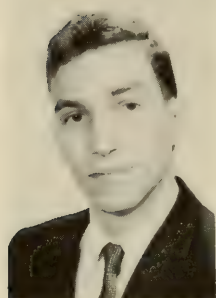
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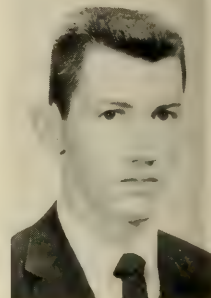
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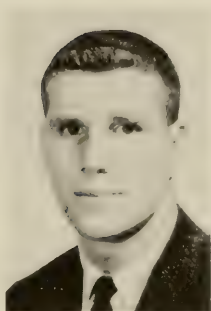
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L.E. ANTHONY



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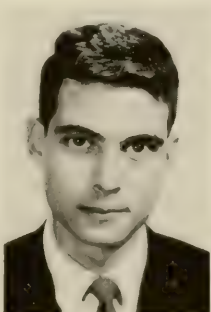
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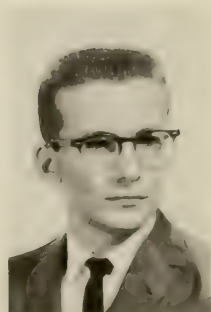
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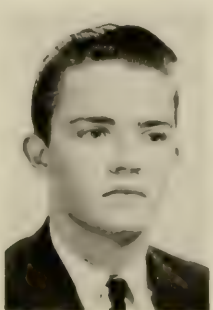
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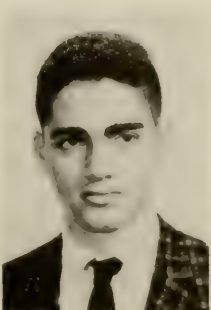
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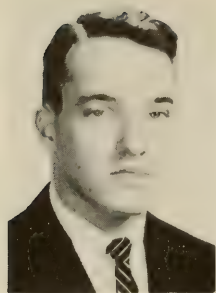
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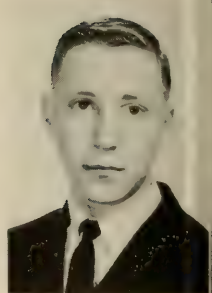
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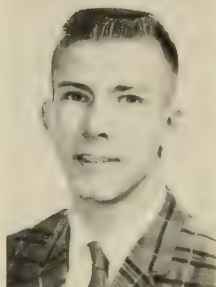
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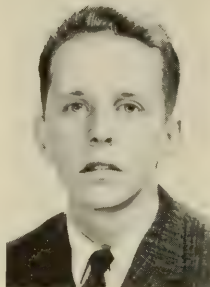
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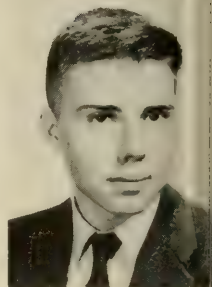
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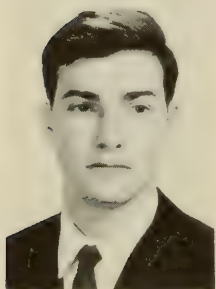
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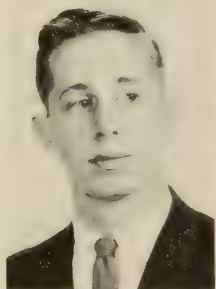
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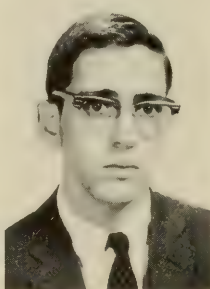
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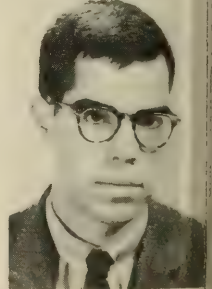
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STEPHEN CORDI



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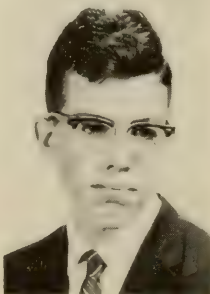
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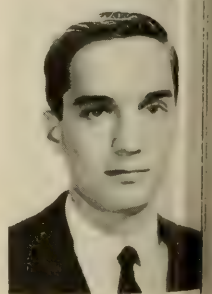
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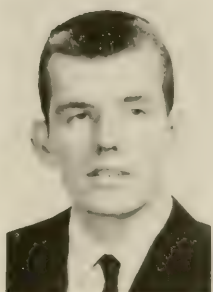
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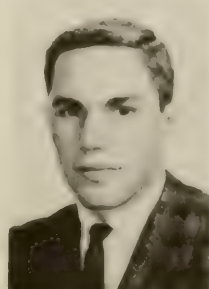
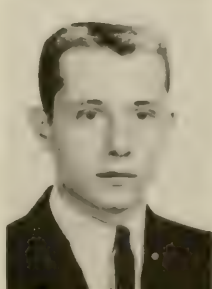
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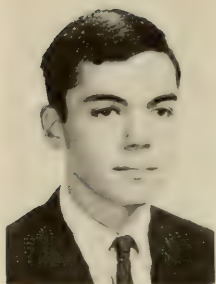
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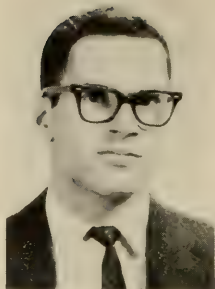
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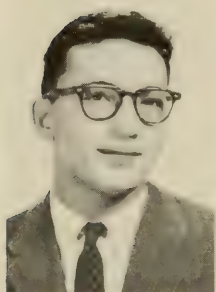
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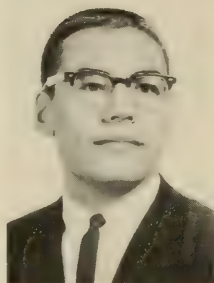
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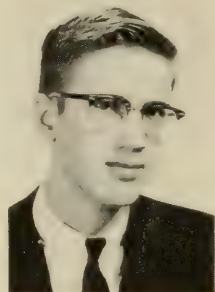
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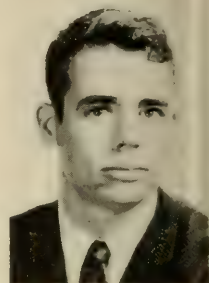
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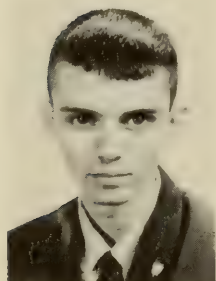
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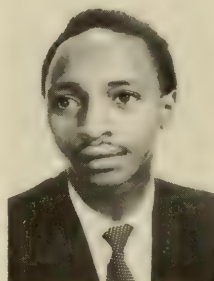
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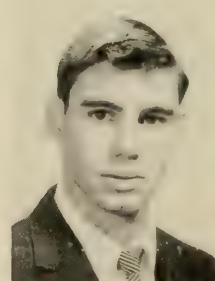
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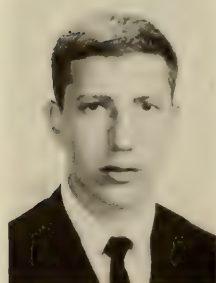
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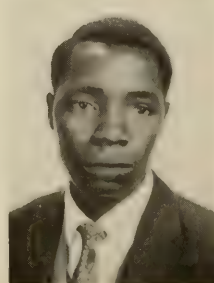
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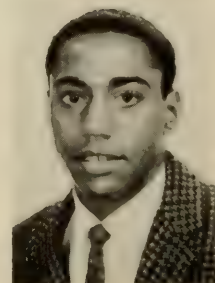
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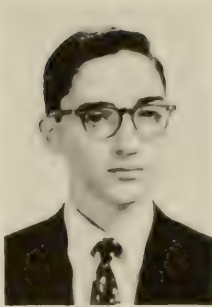
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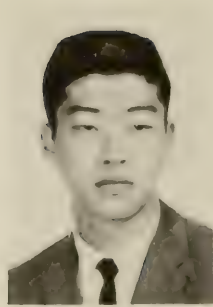
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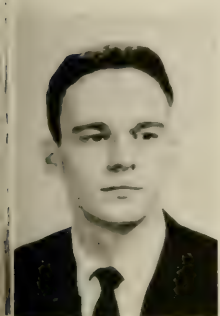
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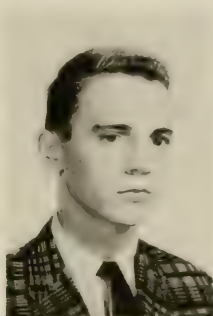
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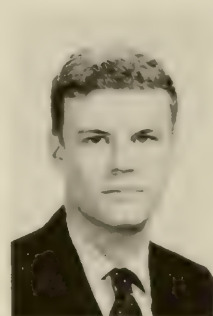
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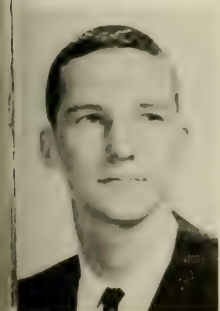
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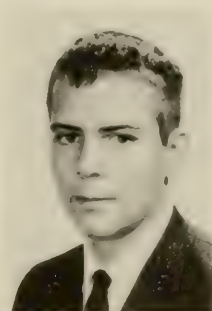
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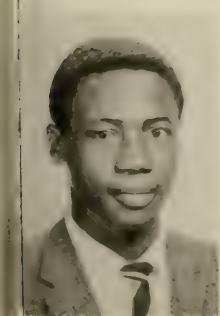
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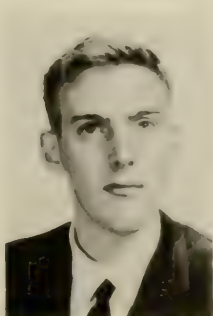
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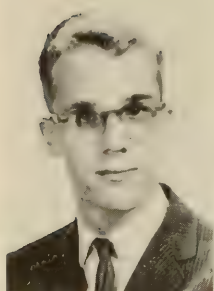
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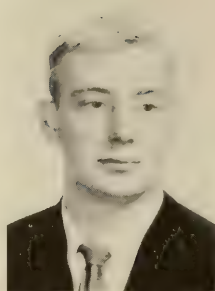
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R. C. PERISHO



R.F. PETERSON



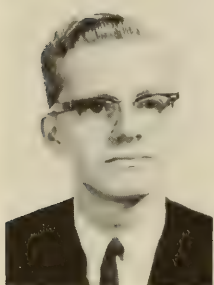
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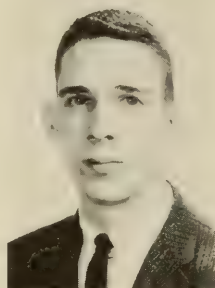
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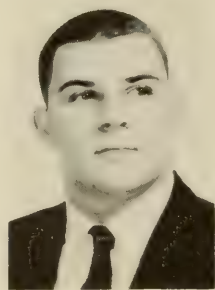
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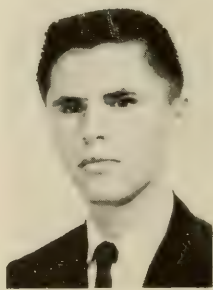
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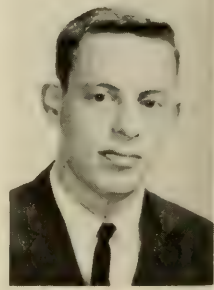
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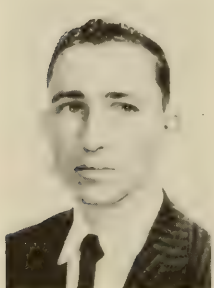
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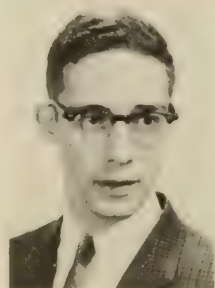
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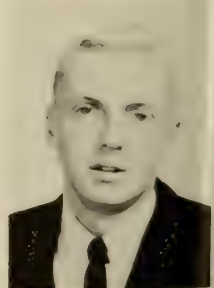
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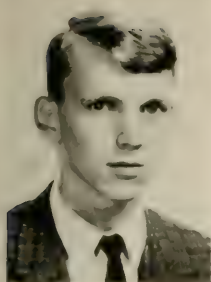
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JONATHAN SCOLL



A.P. SIFFERLEN



ROBERT SIMMONS



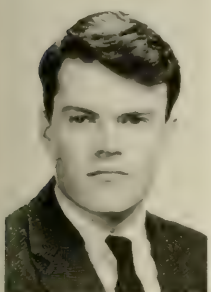
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D. SONNENBORN



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R.A. STEERE



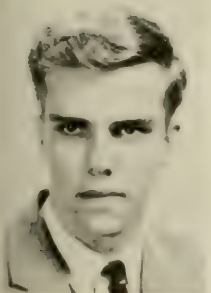
MICHAEL STEPT



ROLAND STERN



MICHAEL STEVENS



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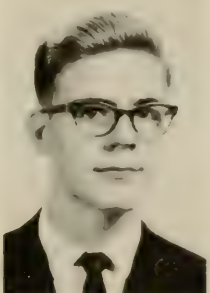
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JOEL A. TUBER



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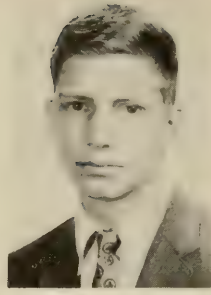
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S. H. WEBSTER



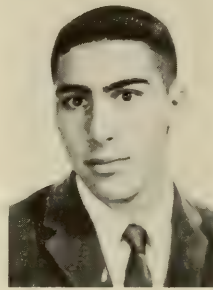
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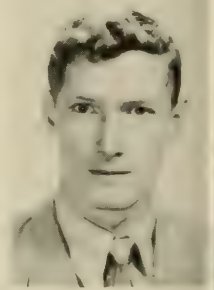
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R. S. WOODWARD



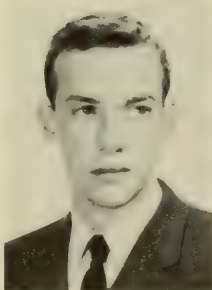
WILLIAM YELON



ION O. YOUMAN



CLIFTON YOUNG



JOHN A. ZAPP

Freshmen



B.A. AMBLER



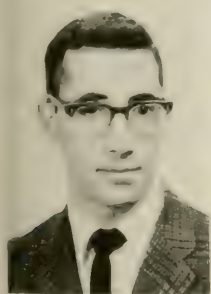
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A.R. BAKER



A.E. BALBER



P.E. BECKER



H.A. BLACHLY



J.N. BONGIOVANNI



S. BONIME



T.H. BONNELL



B.N. BOWERS



H.U. BUSH, JR.



K. CAMPBELL, III



D.A. CARSON



D.P. CAUFFMAN



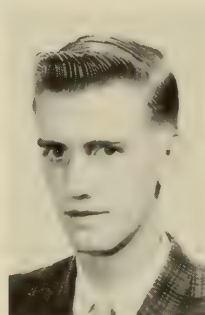
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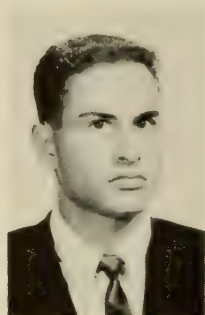
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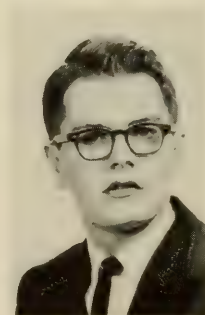
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F.B. COTTRELL



A.D. CRANE



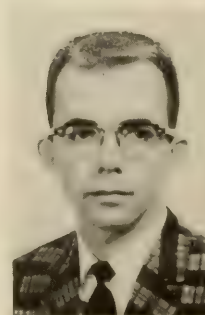
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D.B. DAVIS



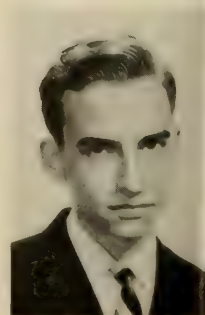
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R.W. DAVIS



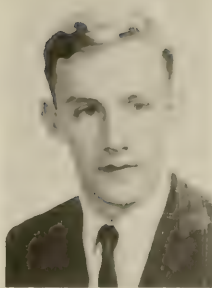
C. DE SCHWEINITZ



D.C. DODSON



M.W.DOWDS



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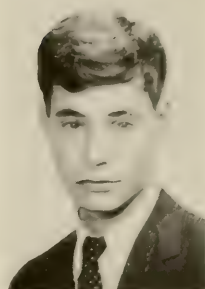
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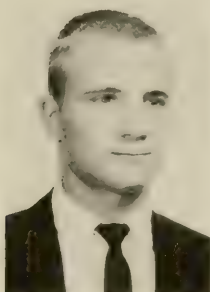
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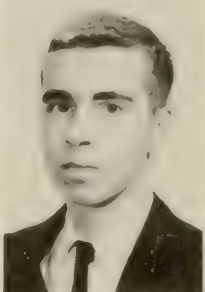
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R.F.FERNSLER



R.B. FRITCHLEY



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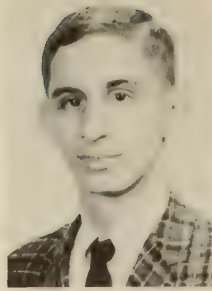
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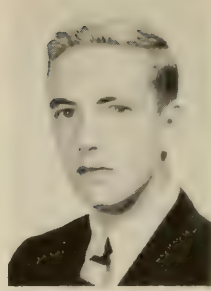
T.O.GRAY



R.L.GROSSMAN



R.W.GUTMAN



J.N.HANSEN



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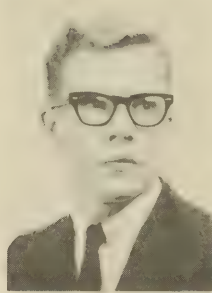
J.T.HEIMBACH



P.A.HERSHEY



H.M.HICKS, JR.



R.I.HILLIER



R.L.HILLMANN



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J.HOOVER



S.G.HOPKINS



T.H.HORWITZ



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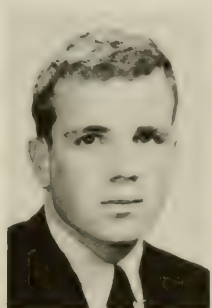
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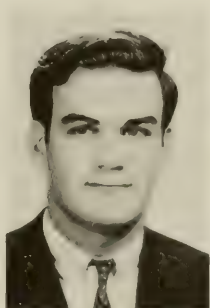
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D.N. KANE



M.V. KEENAN



B.H. KURTZ



E.C. LUTTON, II



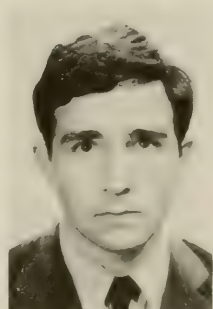
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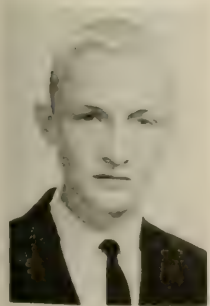
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G.S. MACPHERSON



R.K. MANOFF



R.D. MC CARGAR



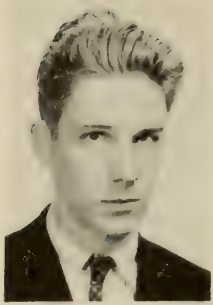
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P.M. MC KEEHAN



J.C. MEESKS



C.H.K. MELBY



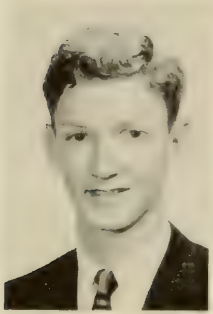
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H.H. MEYER, III



P.R. MILLER



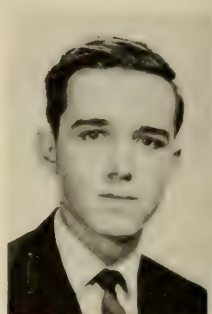
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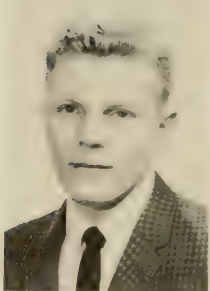
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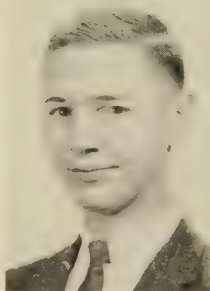
J.H. MORGAN



C.B. MUELLER



D.R. MURPHY



E.H. OLDMIXON



D.C. PARKER



W.F. PHILLIPS



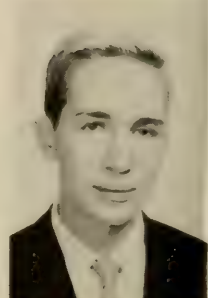
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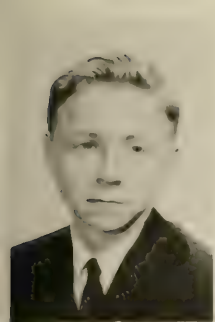
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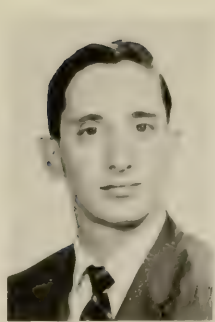
A.F. PLEATMAN



E.M. PRICE



E. PUNZAK



A. H. RAPHAEL



H. R. RAWLINGS



W. P. READ



T. C. REICHARDT



D. Y. RICH



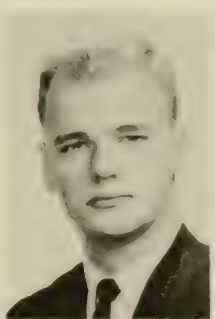
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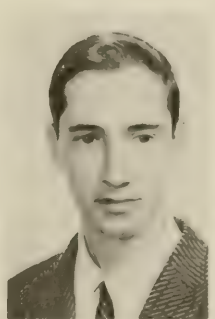
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O. ROBINSON JR



R. M. ROHLFS



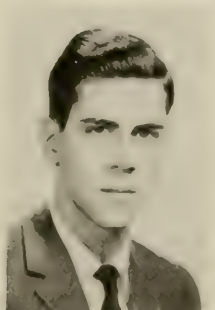
A. L. ROSNER



S. E. ROSS



R. ROZENTHAL



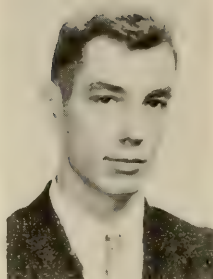
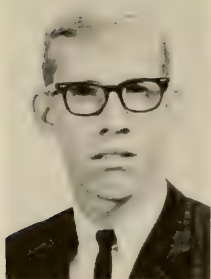
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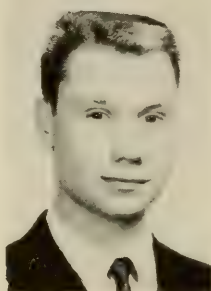
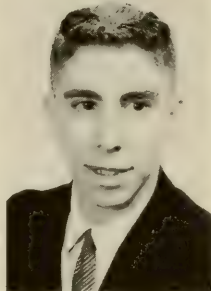
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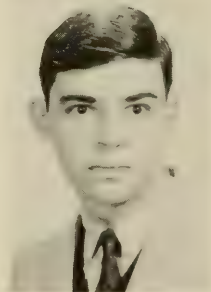
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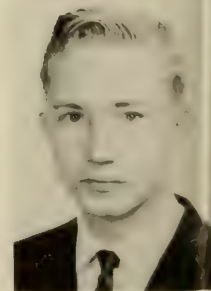
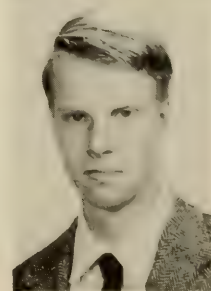
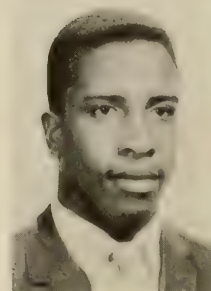
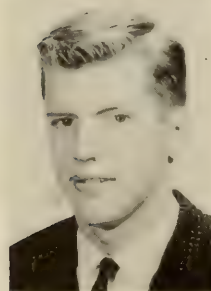
T.K. SAYLOR, III L.E. SCHACHTERLE L.P. SCHACTER M. SCHATZKI



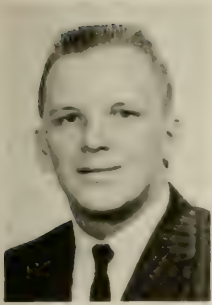
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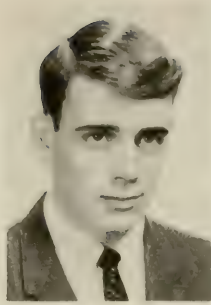
M.I. SLOTKIN G.D. STERN R.D. STETLER, JR M.I. STRIEB



P.L. TAYLOR W.K. TUNNELL J.E. ULLMAN B.E. UMLAND



H.S. WALKER, III



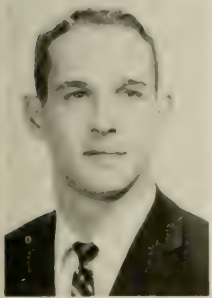
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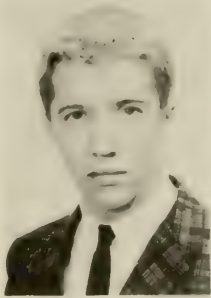
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J. WHEELER



H.H. WILLIAMS



C.H. WOLFINGER

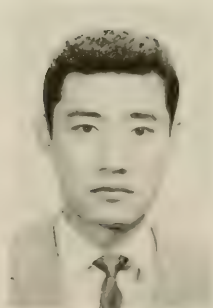


S.S. YOUNG

Special



JUSTUS COBET



S. YANAGIDAIRA

HAVERFORD COLLEGE

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BULLETIN

1962

HAVERFORD, PA.

PRESIDENT

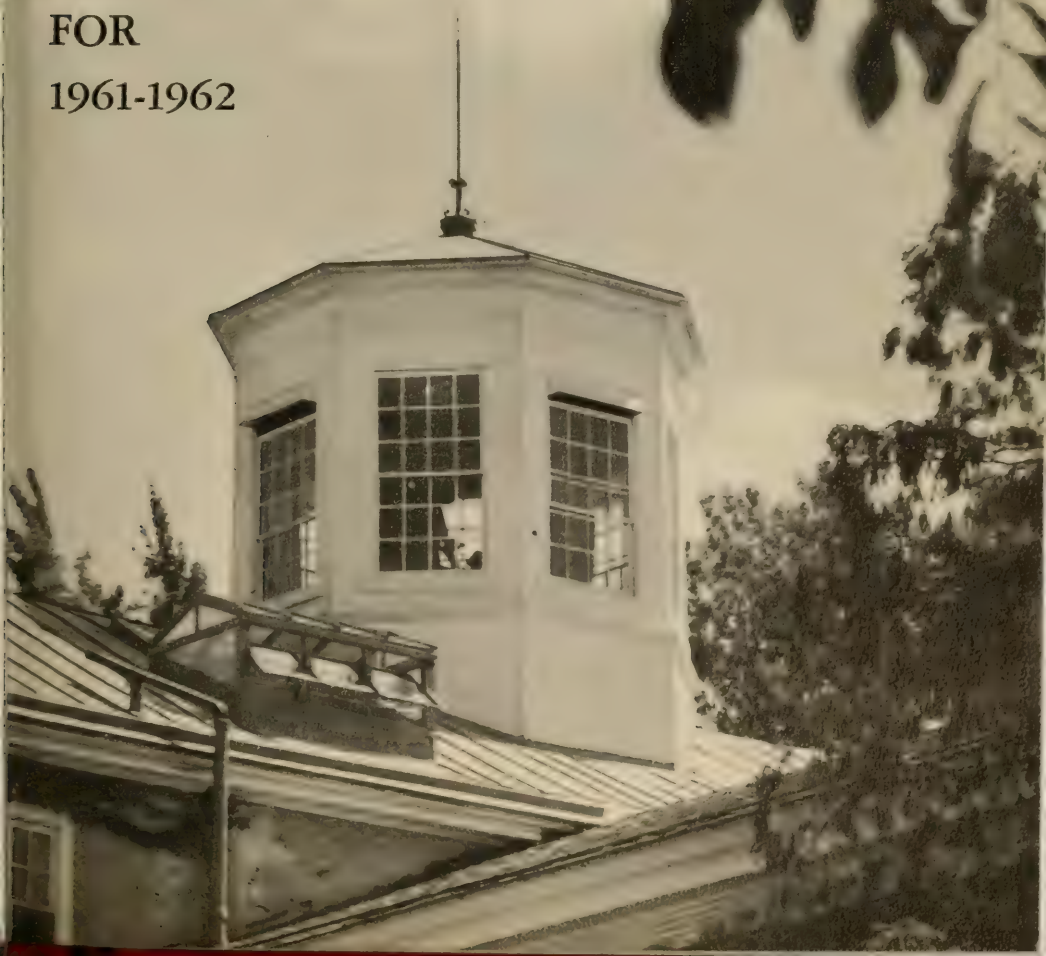
AND

TREASURER

REPORTS

FOR

1961-1962



***Haverford College Bulletin*, Vol. LXI, Number Three, November 1962, President and Treasurer Reports.** Issued July, October, November and January by Haverford College, Haverford, Pennsylvania. Entered as second-class matter November 2, 1944, at the Post Office at Haverford, Pa., under the Act of August 24, 1912.

PRESIDENT AND TREASURER REPORTS
FOR
1961-1962

Also containing . . .

A Report on the Development Program



HAVERFORD COLLEGE
HAVERFORD, PA.

REPORT OF THE PRESIDENT

*presented at the
Annual Meeting of the Corporation
of Haverford College*

October 16, 1962

THE COLLEGE AND LIBERAL ARTS EDUCATION

TO anyone visiting the campus during the past six months, the most obvious new development is the construction of our new Chemistry-Mathematics-Physics Building. I will refer to this again in due course, but for the moment wish to refer to some of the less obvious, but none-the-less significant developments of the past year. These can be classified under the general heading of activities of the faculty and the administration to make Haverford College better able to fulfill its role in a world which, having lived through the first five years of the Space Age, has not yet even begun to understand the effects, implications, and repercussions of our advances in scientific knowledge on our civilization and on all mankind.

For one thing, liberal arts education of the future must be flexible enough to allow for new areas of knowledge and new means of understanding the true effect of this knowledge on our society. The future graduates of a liberal arts college must learn to be at home not only with new scientific discoveries but also with the most significant aspects of non-Western as well as Western civilization. Liberal arts education of the future will have to devote far more time to affairs of the world and even of the universe than to domestic affairs as in the past.

With these points in mind, I believe it will be clear from a presentation of many of the most important activities of the past year that the College is aware of this new role which a liberal arts college such as Haverford must play. Specifically, a College Plans Committee of the

faculty spent considerable time and effort on such basic questions as how our present educational program could be improved, how the students could receive both a richer and more integrated training so they could understand the inter-relationship of the various branches of knowledge and how a carefully planned enlargement of the College would improve the quality of Haverford's education. This Committee made suggestions for the enrichment of the students' educational experience by more flexible requirements for graduation and for a "Unified Studies Program" for a portion of the freshmen and sophomores. This Unified Studies Program would coordinate and emphasize the inter-relationship of the subjects which are now part of the requirements of the first two years.

These suggestions were further analyzed and perfected by a faculty team of four, headed by Howard M. Teaf, which attended the College Campus Workshop held last summer at Colorado College under the sponsorship of the Danforth Foundation. The Haverford team members report that the most vital and generally useful part of the program was the opportunity to inform themselves about the experiences and plans of other institutions in a variety of programs and experiments. They are now preparing recommendations for consideration of the faculty on how best to maintain and strengthen the principle of flexibility in our present curricular requirements to permit our students to receive an enriched education.

The Haverford team at the Campus Workshop also profited from the fact that William E. Cadbury, Dean of the College, served, as previously, as a member of the workshop faculty. He is also rendering a valuable service to liberal arts colleges this year as chairman of the American Conference of Academic Deans which meets concurrently with the Association of American Colleges.

THE COLLEGE AND THE WORLD

As examples of an effort to retain a proper balance between a broadly based education and one interspersed with new areas of knowledge, the Computer Center, jointly sponsored and set up with Bryn Mawr College, has been operating for the past eleven months in Hilles Hall. Faculty members and students alike from both institutions in such diverse fields as economics and physics, sociology and classics,

and psychology and chemistry have profited from the invaluable resources afforded by the Center.

In another even newer field of study, namely, electron microscopy, a generous grant from the National Institutes of Health will enable the College to add an electron microscopist to our biology department. Unfortunately, our efforts to appoint someone to this post for the current year were unsuccessful, but the College is extremely fortunate to have this opportunity to be in the forefront of experimenting in undergraduate education in this fascinating and exciting area. It adds a new and important dimension to that department.

Similarly, both members of the faculty and administration at Haverford, Bryn Mawr, and Swarthmore have been active in planning for the second phase of the Asia Program, designed primarily to increase the awareness and knowledge of these three colleges in non-Western civilizations and sponsored by the Ford Foundation. The program during the second semester of the current year will include a seminar for faculty members and an undergraduate course for students on India for all three colleges. Under the direction of Professor Milton Singer of the Department of Anthropology of the University of Chicago, twelve faculty members from all three colleges, five of whom are from Haverford, will devote two-thirds of their time to the seminar.

As in the case of the China program two years ago, new interest will be aroused and new material and information will be included in the regular courses offered at the College. An outstanding example of the impact these seminars are having is the publication last year of a book entitled *Economics of the World Today*, written jointly by Professors Claire Wilcox and Willis Weatherford of Swarthmore and Holland Hunter of Haverford. The latter, long a specialist on the Soviet Union and a member of the faculty seminar on China, is understandably enough the author of the two chapters entitled, "The Soviet Union" and "Communist China."

The activities of several other members of Haverford's faculty reflect a keen awareness of the importance of non-Western civilizations. Professor Ira Reid was on leave during the last semester to serve as coordinator of the extension work of the University College, Ibadan, Nigeria. This year he is appointed to the Danforth Visiting Professorship of the International Christian University in Tokyo. Professor Paul Hare has just returned from a year with the Peace

Corps as its Deputy Representative in Manila. Professor Harvey Glickman has been active teaching and writing on Africa, his area of specialization, and currently is recipient of a Ford Foundation Overseas Training Fellowship for language study at Columbia University and for research in Africa.

Vice-President Archibald MacIntosh has also been active in African educational problems. He was again requested by the African Scholarship Program of American Universities to assist several Selection Boards in Africa in choosing outstanding scholars to come to this country. In mid-winter he spent four weeks visiting four different countries contributing his wisdom and knowledge to this important work. Thanks to the generosity of the Board of Managers, I was able to accept the invitation of the United States government to be Chairman of the American delegation to the Japan-United States Conference on Cultural and Educational Interchange held in Tokyo during the last week of January, 1962. This stimulating experience gave me a unique opportunity to participate in a conference which made significant recommendations to both governments on how cultural interchange can be improved to strengthen further the ties between the two countries.

GENERAL FACULTY ACTIVITIES

Although thus far I have emphasized some of the special activities of members of the faculty and administration, especially in terms of new areas of knowledge and non-Western culture, I must be careful not to leave you with a false impression. Our faculty members as a whole, as well as those mentioned above, have been active in the past year, in the classroom, in the college community and in research and writing. These activities are too numerous to mention individually. Suffice it to remind you that persons of the calibre of the members of our faculty are, by the very nature of the times in which we live, dedicated teachers, with a deep interest in their students as individuals. If our faculty members measured their success in terms of the number of students they taught rather than the quality of their pupils or if they were primarily interested in research and writing, they would not be at Haverford but on the staff of one of our large universities.

At the same time, our faculty has published several important works since my last report. In addition to those mentioned earlier, Paul Hare is author of a significant sociology book entitled, *Handbook of Small Group Research*, Edwin Bronner, successor to Thomas E. Drake as Curator of the Quaker Collection, has just completed a comprehensive study of William Penn and Pennsylvania published under the title, *William Penn's "Holy Experiment" The Founding of Pennsylvania, 1681-1701*. In the field of science, numerous research articles by our faculty have appeared. To list only two, Professor Ariel Loewy has reported on his research on the various properties of "Fibrinase" in a series of four articles in the *Journal of Biologocial Chemistry* and Thomas Benham is author of a chapter on "Electronics Travel Aid for the Blind." Other publications, faculty lectures, and activities are listed elsewhere in this report.

As in previous years, there have been changes in our faculty. To mention some of the most important, much to the regret of the College and of his colleagues, Professor Thomas E. Drake asked to be relieved of his duties as of September 1, 1962, as Professor of History and Curator of the Quaker Collection. The Board acquiesced with his request with deep appreciation for his twenty-five years of service to the College. The Board also agreed that the work of the Quaker Collection was of such importance that his successor should be assigned more time to that task. Thus, Edwin Bronner, formerly of Temple University and an active member of the Society of Friends, will devote two-thirds of his time to this task. John Chesick of Yale University has been appointed Associate Professor of Chemistry to fill the position left vacant by the death of Professor Russell Williams, while Charles H. Holbrow is a new Assistant Professor of Physics necessitated by Professor William Davidon's resignation effective February 1, 1963.

While the number of faculty members on leave for part or all of the academic year 1962-63, not including those relieved of work to attend the India Seminar, is twice as large as last year, all but two of these are on sabbatical leave. This increase in sabbatic leaves is accounted for by the fact that last year only three faculty members were away on their sabbatic year and the average yearly number eligible for that leave is eight.

The College also has lost through retirement the services of Bennett S. Cooper as Alumni Secretary, who served the Alumni Association and the College faithfully and cheerfully for seventeen years. William E. Sheppard, II, a member of the Class of 1936, was appointed as his successor, effective August 1, 1962. I am also pleased to report that the Board of Managers approved at its last meeting the appointment of James Lyons, of the University of Indiana, to fill a new position of Dean of Students. As Dean of Students, Mr. Lyons will be responsible for student conduct and all aspects of non-academic life of the students except those covered by the Students' Council, or the Directors of Athletics, Music, and Drama.

THE STUDENT BODY

The student body this year is composed of 460 undergraduates, an increase of nine over last year, and three special students. The increase occurred in the freshman class which totals 130. The scholarly attainment of the Class of 1966 continues to show improvement over its predecessors but its members were also selected on the basis of character and personality as demonstrated by their achievements in extra curricular activities as class officers, editors of school publications, varsity lettermen or presidents of school organizations.

The present freshmen, Class of 1966, when compared with the Class of 1961, have come from a wider geographical range (73% out of state as against 60%), from a greater variety of schools (115 compared to 97), and from public rather than private schools in increasing numbers (66% compared to 46%). The percentage of Friends in the College remains constant at about 11%.

It is also gratifying to report that last year was a good year academically for the student body. Only two freshmen withdrew for academic reasons and over 97% of the marks in individual courses in the second semester were passing. While our students work hard, this record clearly shows that the vast majority of the students are capable of successfully doing the work assigned them.

IDEALS AND MORAL VALUES

One of the three elements in the educational philosophy of the College as a Quaker institution, and set forth in its catalog, is the

importance of personal ideals and moral values. One of the most difficult problems of contemporary life is to know how ideals or moral values may best be instilled in our youth of today. Whereas a convincing talk a generation ago in Fifth Day Meeting or in Collection by William W. Comfort or Rufus M. Jones on a Biblical text or a religious leader inspired many members of this Corporation, the present college generation of young men or women, for whatever reason, is not so moved. Our students, like their contemporaries on other campuses, are more interested in action rather than words, in the realities of integration than a theoretical definition of brotherhood. Individual influence by example becomes more convincing than eloquence.

Nevertheless, we believe there is ample evidence from examples of students' actions to show that they have grasped certain ideals and moral values for which the College stands. We are struck by the fact that a large proportion of our students who are not committed to any particular career upon entering college will decide on a profession in which they can be of service to their fellows as teachers, doctors, ministers or lawyers. Four of last year's graduates have entered the Peace Corps. Furthermore, this year was no exception to previous years when almost annually a number of seniors applied and were accepted for membership in the Haverford Friends Meeting. This year was exceptional, however, in that one of the two seniors so admitted was a foreigner and attributed his interest in joining Friends exclusively to his experiences at Haverford College.

Another most gratifying tendency of the students is to turn naturally and without any apologies to Friends' form of worship when they are faced with personal crises. For example, immediately following the tragic death of one of our students last year, student leaders asked the Dean whether it would be possible for them to organize a memorial service in the manner of a Friends Meeting and in the Haverford Meeting House. When held, the large number of students attending and the deep sense of worship which developed at this service indicated how much worshipping in this manner means to them. Fully conscious that we fall far short of what we should do, we are convinced that Haverford's ideals and moral values make more of an imprint on our students than would appear on the surface.

PHYSICAL CHANGES

The past year has brought more significant physical changes to the College than any of the past five years. The long period of planning for the new Chemistry-Mathematics-Physics Building is over. During the six months that the contractors have been working on the building, they have nearly completed the main construction and the roof. By the next annual meeting of the Corporation, the building is expected to be completed and we should be assembled in its new auditorium.

After the Building Committee, under the able and conscientious leadership of Philip G. Rhoads, '24, had approved the final plans of Vincent G. Kling, the architect, these were presented to the Board in January 1962 for its approval. On March 15, 1962, I notified Nason and Cullen, Inc., W. M. Anderson Company, and H. B. Frazer and Company that they were the successful bidders as the general, mechanical, and electrical contractors respectively. Louis B. Klauder and Associates have served as engineering consultants. We are greatly pleased with the workmanship and progress of the building and the manner in which it seems to fit into the location selected for it.

I am also greatly pleased to be able to report that our original estimate of over two years ago of \$2,000,000 for the building has proven to be surprisingly accurate. Despite numerous unexpected changes, a slightly larger building than contemplated at first, and air conditioning throughout the building, the final contract price was below this figure. It is exciting to see our plans develop into reality and it will be even more exciting when we move into the building next fall.

Plans for a new dormitory, to which I referred in last year's report, have been slow in materializing, but the Board of Managers at its last meeting on September 28, 1962 approved of the construction of a new building for approximately one hundred twenty-eight students. The Board also decided that this new dormitory should be located south of Leeds Hall and at right angles to it, but placed so that it does not interfere with the track or Walton Field. By building a dormitory of this size, the College will relieve its over-crowding by moving about seventy students out of Barclay and Lloyd and at the same time will expect to add fifty additional students to the College, bringing the total to over 500. We are now working on specific plans for this

dormitory which is estimated to cost \$640,000, and we intend to start building as quickly as possible.

At the same time, we are directing our attention to the renovation of Sharpless Hall for use of our Biology and Psychology Departments. Fortunately, we have received nearly \$400,000 in grants from the National Institutes of Health and the Rockefeller Foundation for this reconstruction work and are hopeful that the necessary changes can be accomplished within this amount. When completed, both of these departments will have modern classrooms and laboratories commensurate with the ability and outstanding reputation of their faculty members.

Finally, we will be turning our attention to new uses for Lyman Beecher Hall Chemistry Laboratory and parts of Founders Hall from which Chemistry and Mathematics will have moved to the new science building. This new space, which can be adapted for new use with a minimum of expense, will be available for the Humanities, Social Sciences and the Administration. While all of this building and renovation might seem excessive to the outsider, those of us at the College are waiting impatiently for all of it to be completed, for we know it will make a profound improvement in the intellectual and social character of the entire college community.

THE DEVELOPMENT CAMPAIGN

Two years ago at this time plans were being perfected for a campaign to meet Haverford's current capital objectives and to cover the budgetary needs normally met by Annual Giving. Last year I reported progress to date of the Development campaign. The detailed report on its further progress to June 30, 1962, prepared by Walter C. Baker, Vice President for Development, appears elsewhere, on page 65 of this bulletin. I join him in expressing deep appreciation for the work of our campaign organization and the generous support of Haverford's alumni and friends which have made possible these results. I share his confidence that, with their help, we shall achieve these goals, which are so important to the future of the College.

THE COLLEGE IN THE FUTURE

Much of what has already been reported concerns the future as much as the past. The College cannot but be profoundly affected by

the new buildings both under construction and planned, by the changes in the educational program or in the teaching and administrative personnel. The plans for these buildings and their location have been prepared with the future clearly in mind. For example, the new Chemistry-Mathematics-Physics Building allows for a thirty per cent increase in size of the student body without requiring the re-scheduling of laboratory classes. It is also located at a place on the campus where new educational buildings can be added without encroaching on areas already occupied.

One aspect of the future of the College, however, on which much time and thought has already been spent, is the extent to which it should expand in the future. The decision of the Board of Managers to construct a new dormitory which will house fifty new students commits the College to grow to that extent in the immediate future. On the other hand, if we are to make decisions now which will most effectively meet future needs, we must have a clearer idea as to what these needs are and should be. It seems clear to those of us at the College that both the quantity of the students and the quality of the College's program can and should be improved simultaneously provided certain conditions are met. For example, expansion should not exceed the available supply of mature and intellectually effective students. It should only be at a rate at which one can obtain an adequate number of able and interested faculty members. In determining what an adequate number of faculty members in a given department should be, great weight should be given to the opinions of those in that department.

Furthermore, we are convinced that one of the most important ingredients in any growth of an institution is how this is accomplished. With this in mind, we believe that Haverford College will be able to retain much of its character and many of the advantages of a small college if its future growth results in the formation of a second social group or quadrangle on the campus. Leeds Hall forms the natural first unit for such a grouping and the new dormitory next to it as the second unit. The Resources and Development Committee will be considering later this month our recommendations on the extent to which this second quadrangle should be developed.

During the past year, more than any of the five years I have served as President, Haverford College gained momentum and looked to the

future with high hopes and confidence. This new vitality is exciting and infectious, challenging and satisfying. Hopefully, this report has conveyed to you some of this new spirit, yet a spirit leavened and instilled with that which we cherish so highly from the past, which will make of our College an institution truly to be emulated.

HUGH BORTON

STATISTICS FOR REPORT OF THE PRESIDENT

1961-1962

ENROLLMENT

Fall Semester, 1958	458
Spring Semester, 1959	434
Fall Semester, 1959	452
Spring Semester, 1960	443
Fall Semester, 1960	472
Spring Semester, 1961	462
Fall Semester, 1961	457
Spring Semester, 1962	443
Fall Semester, 1962	463
<i>Undergraduate Students</i>	460
<i>Graduate and Special</i>	3

COMPOSITION OF THE STUDENT BODY

FALL SEMESTER, 1962

The student body represents 35 states. The following foreign countries are represented: British Guiana, Canada, France, Germany, India, Italy, Japan, Kenya, Nigeria and Tanganyika.

Students who are members of the Society of Friends number 50, or 11% of the total enrollment, and 60 students are sons of Alumni, or 13% of the total enrollment.

REGISTRATION IN ACADEMIC COURSES

<i>Department</i>	<i>Registration (Fall & Spring Semesters)</i>									
	Fall, 1962	61-62	60-61	59-60	58-59	57-58	56-57	55-56	54-55	
Astronomy ...	2	136	105	85	74	56	63	49	76	
Biblical Lit.										
(Religion) ..			92	103	132	78	105	86	71	
Biology	110	192	205	219	266	234	318	318	185	

REGISTRATION IN ACADEMIC COURSES (continued)

<i>Department</i>	<i>Registration (Fall & Spring Semesters)</i>								
	Fall, 1962	61-62	60-61	59-60	58-59	57-58	56-57	55-56	54-55
Chemistry	135	235	234	289	268	279	366	382	410
Classics	109	113	141	108	(Greek and Latin)				
Economics . . .	125	241	280	255	271	269	228	227	243
Engineering . .	20	47	58	46	43	64	46	57	46
English	301	611	701	609	650	700	605	637	673
French	123	217	197	162	220	245	251	253	225
Geography									13
German	129	220	268	217	246	206	209	166	180
Greek (now Classics)					39	27	27	31	31
History	176	429	260	300	283	269	237	184	209
History of Art.	23	91	71	65	50	56	50	70	69
Latin (now Classics)					28	44	74	34	38
Mathematics . .	183	348	344	345	333	330	333	307	284
Music	70	115	138	95	90	64	39	31	45
Philosophy . . .	169	340	431	394	351	306	317	334	348
Physics	83	148	145	197	206	192	138	188	156
Political Science	167	309	285	302	248	297	231	290	274
Psychology . . .	80	165	164	160	149	286	127	169	175
Religion	63	94	(formerly Biblical Literature Dept.)						
Russian	22*	43	52	72	48	16	11	15	12
Sociology	73	174	210	205	243	172	142	129	114
Spanish	60	84	78	84	70	85	105	98	95

General Courses

E. Asian Studies (now History 37-38)						60			
Humanities . .	64	117	105	110	135	139	201	165	181
Physical Science	—	51	41	33	20	30	—	—	58
Social Science..							249	250	260

*Figure includes 7 students who take Russian at Bryn Mawr College.

HAVERFORD STUDENTS AT BRYN MAWR

Anthropology	9
Archeology	2
Biology	1
Chemistry	2
Economics (Haverford course #37)	9
Education	1
English	5
Geology	4
Greek	1
History	8
History of Art	1
Interdepartmental	8
Italian	1
Music	2
Philosophy	1
Russian	13
Sociology (Haverford course #49)	10
Spanish	2

UNIVERSITY OF PENNSYLVANIA

Mathematics	1
Oriental Studies	2

SWARTHMORE COLLEGE

Spanish	1
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DEGREES GRANTED, JUNE 8, 1962

B.A.	97
B.S.	7

COLLEGE VISITORS

1961-62

Collection (Weekly Assembly) Speakers

- John Bergin, advertising executive
Fred J. Byrod, sports editor, Philadelphia Inquirer
James A. DePreist, director, The Contemporary Music Guild, Philadelphia, Pa.
Charles Frankel, professor of philosophy, Columbia University
*Milton Friedman, professor of economics, University of Chicago
Northrop Frye, principal of Victoria College, University of Toronto
Paul Goodman, author
*Pierre Laroque, member of the Conseil d'État, Paris, France
Richmond Lattimore, professor of Greek, Bryn Mawr College
*Paul Lazarsfeld, professor of sociology, Columbia University
Charles Mathias, Jr., U.S. Congressman, Maryland
**Sean O'Faolain, director of arts, Council of Ireland
Jonathan Rhoads, chief of surgery, University of Pennsylvania Hospital
George E. Ruff, staff psychiatrist, University of Pennsylvania
Jean Shepherd, radio station WOR, New York, N.Y.
*Jan Tinbergen, professor of economics, Rotterdam University

Collection Speakers, from the College

- John Ashmead, Jr., associate professor of English
Hugh Borton, president
William C. Davidon, associate professor of physics
Haverford College Glee Club

Departmental and General Visitors

- *Brian Abel-Smith, reader in social administration, University of London
- Andreas Alföldi, professor, Institute for Advanced Study, Princeton University
- *Kenneth Arrow, professor of economics and mathematics, Stanford University
- Monroe C. Beardsley, professor of philosophy, Swarthmore College
- Richard Bernstein, professor of philosophy, Yale University
- *A. S. Besicovitch, professor emeritus, Cambridge University
- Albert Bigelow
- *Sydney Brenner, member of Medical Research Council Unit, Cambridge, England
- *Donald Campbell, professor of psychology, Northwestern University
- *Owen Chamberlain, professor of physics, University of California
- *Sydney Chapman, advisory scientific director of Geophysical Institute, University of Alaska
- Community Chamber Music Group
- *John Sherman Cooper, U.S. Senator, Kentucky
- William W. Darmon, assistant to general manager of Industrial Relations, Atlantic Refining Company
- *William von Eggers Doering, Whitehead professor of chemistry, Yale University
- Frank P. Dwyer, professor of biological inorganic chemistry, Australian National University, Canberra
- *William Feller, professor of mathematics, Princeton University
- Anthony Flew, professor of philosophy, University of North Staffordshire, England
- *Heinz Fraenkel-Conrat, professor of virology, University of California, Berkeley
- Boris Goldovsky, lecturer and pianist, New England Conservatory of Music
- Goucher College Glee Club
- Green Briar Boys
- *Harry Harlow, professor of psychology, University of Wisconsin
- Eric Heller, professor of German, Northwestern University
- *Leonid Hurwitz, professor of economics, University of Minnesota
- Walter Isard, professor of regional science, University of Pennsylvania
- Martin Karplus, associate professor of chemistry, Columbia University
- *Michael Kasha, professor of chemistry, Florida State University
- *Walter Kauzmann, professor of chemistry, Princeton University
- ***Hugh Kenner, literary critic
- *Lawrence Klein, professor of economics, University of Pennsylvania
- Bernard Marcus, Philadelphia representative of International Brotherhood of Teamsters, Chauffeurs, Warehousemen & Helpers of America
- *Rollo May, chairman, American Association of Existential Psychology
- William Mayer, psychiatrist, U.S. Army
- Stanley Mellon, professor of history, Yale University
- M. A. Melvin, professor of physics, Florida State University
- Jean-Pierre Meyer, assistant professor of mathematics, Johns Hopkins University
- *Charles Osgood, professor of psychology, director of the Institute of Communications Research, University of Illinois

- C. D. Papakriakopoulos, research associate, Princeton University
 George Porter, professor of chemistry, The University, Sheffield, England
 •William C. H. Prentice, professor of psychology and dean of men, Swarthmore College
 William Reese, professor of philosophy, University of Delaware
 George Rochberg, chairman, department of music, University of Pennsylvania
 John P. Roche, chairman, department of politics, Brandeis University
 Richard Rorty, professor of philosophy, Princeton University
 •Howard Schachman, professor of biochemistry and virology, University of California
 Edward Sayre, assistant chemist, Brookhaven National Laboratory
 •William H. Stein, Rockefeller Institute
 The New Lost City Ramblers
 The Treateau de Paris Théâtre Company
 Loche Van Atta, associate professor of psychology, Oberlin College
 Douglas Verney, chairman, department of political science, York College, University of Toronto
 •John Wheeler, professor of physics, Princeton University
 Donald C. Williams, professor of philosophy, Harvard University
 •Dennis H. Wilkinson, professor of nuclear physics, Oxford University
 Victor Wiseman, professor of political science, University of Leeds, England

- Philips Visitor
 ••Phi Beta Kappa Visiting Scholar
 •••Shipley Lecturer

MORRIS INFIRMARY

Report for Year 1961-62

House Patients

Upper Respiratory Infections	19
Gastro-Intestinal Infections	9
Infectious Mononucleosis	5
German Measles	1
Miscellaneous	10
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Total	44

Dispensary Patients

Upper Respiratory Infections	1198
Gastro-Intestinal Infections	201
Vaccines	128
Allergy	169
Miscellaneous	1620
Influenza Vaccines Given	324
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Total	3640

Specialties Included in Above Report

Dental—Broken Teeth	3
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Surgery

Fractures	15
Orthopedic	2
Suture cases	17
Tendon repair	2
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Total	39

WILLIAM W. LANDER, M.D.

PUBLICATIONS AND ACTIVITIES OF THE FACULTY

1961-62

ASHMEAD, JOHN

Articles: "Hearn at Matsue," *Occasional Papers, Kansai Asiatic Society of Kyoto*, Vol. 10, Summer, 1961.

"A Mouse in the Outhouse," *The CEA Critic*, Vol. 24, No. 3, pp. 4-5, March, 1962.

"A Possible Hannibal Source for Mark Twain's Dauphin," *American Literature*, Vol. 34, No. 1, pp. 105-107, March 1, 1962.

Reviews: Elizabeth Stevenson, "Lafcadio Hearn," *Virginia Quarterly Review*, Vol. 32, No. 4, pp. 632-635, Autumn, 1961.

Editorial Work: Modern Language Association Committee on MLA editions of classics of American Literature.

Lectures: "American Art and Literature from the Civil War to the Twentieth Century," USIS, Taegu, Korea, August 26, 1961; "Modern American Art and Literature," USIS, Taegu, Korea, August 28, 1961, USIS, Pusan, Korea, August 29, 1961, Seoul National University, Seoul, Korea, September 1, 1961; "Trends in Modern Literature," Ewha University, Seoul, Korea, September 1, 1961; "Nineteenth Century American Art and Literature," Chungang University, Seoul, Korea, September 2, 1961; "Problems of the Novelist," P.E.N. Club, Seoul, Korea, September 2, 1961; "Writing a Novel," Frank Ford Show, WPEN, Philadelphia, Pa., October 2, 1961; "Living and Teaching in Taiwan," Haverford College Collection, October 10, 1961; Discussant, "Experiments in College Composition," National Council of Teachers of English, Philadelphia, Pa., November 24, 1961; "The Story of a Novel," Haverford College Library Associates, October 15, 1961; "Writing a Novel," Women's University Club, Bryn Mawr College, January 15, 1962; "Teaching in Taiwan," Haverford Alumni Club, Washington, D.C., April 10, 1962; Discussant, "Modern American Literature," International American Studies Conference, University of Pennsylvania, Philadelphia, Pa., April 26, 1962; "Japanese-American Cultural Interchange," Third-Orient-West Cultural Conference, University of Indiana, June 22, 1962.

Member, American Studies Association Committee Conference Travel Grants for Asian Scholars, Philadelphia, Pa.

Member, National Advisory Council for Teaching English as a Foreign Language, Washington, D.C.

BELL, PHILIP W.

Books: with E. O. Edwards, *The Theory and Measurement of Business Income*, University of California Press, 1961.

Articles: "The Taxation of Income of U.S. Subsidiaries Abroad: Economic Considerations," in hearings before the Committee on Finance, United States Senate, on Revenue Act of 1962, April 2, 1962, Part 1, pp. 173-202 plus appendix.

Reviews: W. Diebold, "The Schuman Plan: A Study in Economic Cooperation 1950-1959," *Review of Economics and Statistics*, Vol. XLIV, May, 1962.

Isaiah Frank, "The European Common Market—An Analysis of Commercial Policy," *American Economic Review*, Vol. LII, June, 1962.

Lectures: "Foreign Investment and the Balance of Payments," Treasury Consultants' Conference, Washington, D.C., February 12-13, 1962; "Taxation and Foreign Income," American Management Association, New York, N.Y., April 27, 1962; "Economic Aspects of Taxation on Private Investments Abroad," Southwestern Legal Foundation Annual Institute on Private Investments Abroad and Foreign Trade, Dallas, Tex., June 1, 1962; Panelist, White House Regional Conference on the U.S. Economy, Philadelphia, Pa., November 16-17, 1961; Participant, "Can You Afford Tomorrow?" WRCV-TV, December 10, 1961; Panelist over WCAU, Ed Harvey Show, on European Common Market, March 23, 1962.

Consultant, U.S. Treasury Department, 1961-62.

Advisory Committee, Graduate Record Examination in Economics, 1961-62.

Board of Directors, Citizens' Council of Delaware County.

Candidate, Township Commissioner, Haverford Township, 1961.

BENHAM, T. A.

Parts of Books: Chapter 22 entitled "Electronic Travel Aids for the Blind," *Human Factors in Technology*, McGraw-Hill, 1962.

Editorial Work: Editor and Manager of *Science for the Blind*.

Lectures: "Electronic Travel Aid for the Blind," Professional Group on Medical Electronics of the Institute of Radio Engineers at Princeton, N.J., January 9, 1962; "Satellite Tracking at Haverford College," West Philadelphia Optimists Club, October 25, 1961, Holy Trinity-Bethlehem Presbyterian Church, November 19, 1961, Havertown Radio Club, April 4, 1962, Business Men's Meeting, April 11, 1962; "Electronic Travel Aid for the Blind," International Congress, June 18-20, 1962.

Patent applied for on Guidance Device, September, 1961.

Participant, Conference on Guidance Devices for the Blind sponsored by Veterans Administration, Boston, Mass., October 12-14, 1961.

Member, *ad hoc* committee for selection of head of Department of Biology.

Participant in International Congress on Technology and Blindness in New York, N.Y., June 18-20, 1962.

Chairman of the Board, Philadelphia Association for the Blind.
Principal Investigator, Research on Travel Aids for the Blind.
Senior Member, Institute of Radio Engineers.
Haverford College Institute of Radio Engineers Representative, 1958 to date.
Member, Committee for Research on Problems Associated with Blindness.
Continued activity in the study of space communications and space probe tracking.
Member, Governor's Committee on Employment of the Handicapped.
Chairman, Committee for Selection of Books on the Physical Sciences for the Blind,
Library of Congress.

BORTON, HUGH

Lectures: "Japanese Culture: Formative Forces During Feudalism," Cleveland Museum of Fine Arts, Cleveland, Ohio, October 4, 1961; "Exchange of Potential Leaders," America-Japan Society, Tokyo, January 29, 1962; Radio Interview, Frank Ford Show, WPEN, Philadelphia, March 3, 1962; Television Interview, "Conversations on Education" with John Roberts, WFIL, Philadelphia, April 18, 1962; "Cultural Exchange and Japanese American Relations," Yale University Club, New York, N.Y., April 27, 1962; "Responsibilities and Challenges Facing Quaker Institutions of Higher Learning," Guilford College Commencement, Guilford College, North Carolina, June 4, 1962.

Vice President, Trustee, Japan Society, Inc.

Board of Directors: American Friends Service Committee, Japan International Christian University Foundation, Lingnan University, Pendle Hill, Penjerdel, World Affairs Council of Philadelphia.

Life Fellow: International Institute of Arts and Letters.

Member: Harvard Visiting Committee on Far Eastern Civilizations, Association for Asian Studies, Committee on the College and World Affairs.

Chairman: United States delegation and co-chairman of United States-Japan Educational and Cultural Conference, Tokyo, Japan, January 25-31, 1962.

BUTMAN, ROBERT H.

Reviews: Christopher Fry, "Curtmantle," *Jubilee Magazine*, January, 1962.

Lectures: A series of 10 lectures on "Great Books of the Western World," Washington, D.C. Book Club.

CADBURY, HENRY J.

Reprints: The Peril of Modernizing Jesus, The Macmillan Co., 1937, paper back, S.P.C.K., 1962.

The Character of a Quaker, Pendle Hill, Pamphlet 103, second printing, 1961.

Pamphlets: Jesus and Judaism and the Emphasis of Jesus (Shrewsbury Lecture, 1961) Indianapolis: John Woolman Press, 1962.

Articles: "Baccalaureate Address, Bryn Mawr," Alumnae Bulletin, Vol. XLI No. 4, pp. 2-3; also, entitled "The Reality of our Two Worlds," *Pendle Hill Bulletin*, No. 159.

"Macaulay Rejects a Slur on William Penn," *Journal of Friends Historical Society*, Vol. 49, No. 4, pp. 205-208.

"Varieties of Religion in the New Testament," *Friends Journal*, Vol. 8, No. 6, pp. 120-122.

Reviews: "The New English Bible," Theology Today, Vol. XVIII, No. 2, pp. 188-200. R. C. Dentan, "The Design of the Scriptures," *Journal of Biblical Literature*, Vol. 80, pp. 289-90, 1961.

H. Conzelmann, "The Theology of St. Luke," *ibid.*, Vol. 80, pp. 304-5, 1961.

J. C. O'Neill, "The Theology of Acts in Its Historical Setting," *ibid.*, Vol. 81, pp. 197-8, 1962.

Editorial Work: "Briefer Notices" and "Research in Progress," Bulletin of Friends Historical Association (beginning 1962, *Quaker History*). "Letters from the Past," occasional column in *Friends Journal*.

Lectures or Addresses: Old Woodbrookers Association, Askov, Denmark; Friends Center, Amsterdam; New Testament Congress, Oxford (2); University of London, King's College; School Affiliation Conference, Culham College, Abingdon, Berks; Corinthian Society, Bryn Mawr Presbyterian Church; Women's Fellowship, Haverford Friends Meeting, (10); Friends Meeting, Chestnut Hill; Friends Meeting, Germantown (4); Friends Meeting, Hartford, Conn. (2); Friends Meeting, Pittsburgh, Pa. (2); Guilford College, N.C. (2); Trenton Historical Society, Trenton, N.J.; Young Friends at Swarthmore College; Friends Meeting, Doylestown, Pa.; Susquehanna University, Selinsgrove, Pa.; Richard Humphreys Foundation, Cheyney, Pa.; Conference Class, Central Philadelphia Monthly Meeting (3); Sunday Evening Seminar, Christ Church, Wilmington, Delaware; The Welcome Society at Pennsbury, Pa.; Private School Teachers' Association of Philadelphia and Vicinity; Haverford Quarterly Meeting, Old Haverford, Pa.

Preaching Engagements: Shipley School, Bryn Mawr, Pa.

The Unitarian Church of Germantown.

Trustee, and Chairman of Board of Directors, Bryn Mawr College.

Honorary Chairman, American Friends Service Committee.

Director, Friends Historical Association.

Member, Standard Bible Committee.

Lecturer, Pendle Hill (two terms).

Clerk, Philadelphia Yearly Meeting on Worship and Ministry.

CADBURY, WILLIAM E., JR.

Articles: "Outstanding Students in Liberal Arts Colleges," *Liberal Education*, Vol. XLVII, pp. 515-531, December, 1961.

Chairman, College Committee on Outstanding Students.

Chairman, American Conference of Academic Deans, January, 1962-January, 1963.

Member, Committee in Charge of Westtown School.

Member, Board of Directors, Main Line Council on Alcoholism.

Member, Evaluation Panel of Middle States Association, Franklin and Marshall College, March, 1962.

Faculty Leader, Workshop on Liberal Arts Education of the Danforth Foundation, Colorado Springs, Colo., June 17-July 6, 1962.

CARY, JOHN R.

Paper: "Fontane and America," University of Kentucky Foreign Language Conference.

Member, Board of Managers, Friends Program for Teacher Training.

Member, Board of Managers, Pendle Hill.

Member, School Committee, Haverford Friends Meeting.

COMFORT, FORREST

Lectures: "How to Maintain Effective Working Relations with Peoples of Latin America," Quaker International Volunteers; "Specific Problems which are Apt to Face Volunteers in Technical Assistance in Foreign Countries," Quaker International Volunteers.

Chairman, Latin American Committee of the American Friends Service Committee.

COMFORT, HOWARD

Articles: "Un médaillon rhodanien à relief d'applique à Alexandrie, *Ogam*, Vol. 12, 1960, pp. 435-6.

"Some Imported Pottery at Khor Rori (Dhofar)," *Bulletin, American Schools of Oriental Research*, No. 160, 1960, pp. 15-20.

"Notes on Two Cups at Vichy," *Acta Rei Cretariae Romane Fautores*, Vol. 3, pp. 5-13, 1961.

"Some Notes on a Visit to Southern France, Spain and Portugal (pt. I)," *Communicationes Rei Cretariae Romane Fautores*, Vol. 2, fasc. ¾, pp. 6-10, 1961.

"The Creative Arts at Haverford College," *American Council of Learned Societies Newsletter*, Vol. 13, pp. 17-20, 1962.

Reviews: Paul Karnitsch, "Die Sigillaten von Veldidena," *American Journal of Archaeology*, Vol. LXVI, p. 114, 1962.

Lectures: "Roman Epigraphy," Classical Club of Miss Fine's and Princeton High Schools; "La céramique de l'Empire romain," Archaeological seminars of Universities of Barcelona and Madrid, Spain; "Theology and the Society of Friends," Chestnut Hill Meeting.

2nd Vice-President, American Philological Association, December, 1960-61.

1st Vice-President, American Philological Association, 1961-62.

President, Cretariae Romanae Fautores.

Board of Managers, Moore Institute of Art, Science and Industry.

Continuing Committee, Philadelphia Yearly Meeting on Worship and Ministry.

DAVENPORT, GUY

Articles: "Notes on Emaux et Camees," *Spectrum*, Vol. 3, 1961.

"Ezra Pound's Effulgent Gists," *Wisconsin Studies in Contemporary Literature*, Vol. 3, No. 2, summer, 1962.

"Beckett and Kenner, Tandem," *National Review*, May 8, 1962.

"No, but I've Read the Book," *National Review*, February 13, 1962.

Reviews: "Venus Observed," *Bryn Mawr News*, November 24, 1961.

"Blake and Jazz," *Haverford News*, April 26, 1962.

Henri Perrault, "Toulouse-Lautrec: Fact and Fancy," *National Review*, Sept. 23, 1961.

Thomas Mann, "The Story of a Novel: The Genesis of Doctor Faustus."

Kurt W. Marek, "Yesterday: Notes on Man's Progress," *National Review*, November 4, 1961.

Capsule reviews of numerous art books, *National Review*, December 30, 1961.

Robert Ardrey, "African Genesis: A Personal Investigation into the Animal Origins and Nature of Man," *National Review*, March 13, 1962.

Hesketh Pearson, "Conan Doyle," *National Review*, March 27, 1962.

John Knowles, "Morning in Antibes"; Edward Loomis, "The Mothers"; Dorothy Baker, "Cassandra at the Wedding," *National Review*, April 10, 1962.

"Random Notes," capsule reviews of books, musical compositions, and movies, *National Review*, April 10, 1962, April 24, 1962, May 8, 1962, May 22, 1962.

Andrew Turnbull, "Scott Fitzgerald"; Gertrud von Lefort, "The Judgment of the Sea"; Aldous Huxley, "Island"; Thomas Berber, "Reinhart in Love," *National Review*, June, 1962.

Lectures: "Mark Twain as Satirist," Metuchen, N.J., High School, February 14, 1962.

DAVIDON, WILLIAM C.

Reviews: Robert Gilpin, "American Scientists and Nuclear Weapons," *Progressive Magazine*, Princeton University Press.

Lectures: "de Sitter Symmetry and Elementary Particles," University of Pennsylvania, October, 1961; "Variable Metric Method for Minimizing Fractions of Several Variables," Bell Telephone Laboratories, November, 1961; A series of three lectures, "Scattering Theory," Florida State University, December, 1961; "Foundations of Scattering Theory," Bryn Mawr College, January, 1962; "Symmetry of Elementary Particles," Lehigh University, April, 1962; "Nuclear Science and Human Decisions," Annual Meeting, Society for Social Responsibility, September, 1961; "What Stands in the Way of Disarmament?," Susquehanna University, October, 1961; "The Shelter Controversy," Americans for Democratic Action, Pittsburgh, Pa., January, 1962; Panel Member, "Security Through Civil Defense," AFSC Annual Meeting, January, 1962; "Nuclear Weapons and Survival," Labor Conference on Peace, Philadelphia, April, 1962.

Participant, Public Affairs Conference, University of Chicago, "United States Military Policy," September, 1961.

Participant, Brookings Symposium on Communications and Public Policy, February, 1962.

Faculty, Middle Atlantic Region of AFSC Summer Conference, Echo Lake, Pa., June, 1962.

DAVISON, JOHN

Reviews: "Kirkpatrick, Boatwrights Give Concert," *Bryn Mawr College News*, April 11, 1962.

Lectures: "The Chamber Music of Orlando Gibbons," paper given at meeting of regional chapters of American Musicological Society, Bryn Mawr College, May, 1962; "Church Music, Past and Present," Witherspoon Club, Bryn Mawr Presbyterian Church, May, 1962.

Musical Performances as Harpsichord Soloist: Two Elizabethan harpsichord pieces, St. Paul's Church Parish House, Chestnut Hill, April, 1962.

Concerto for Harpsichord and String Orchestra, by Walter Leigh, with Bryn Mawr Community String Orchestra, May, 1962.

First Performances of Compositions:

Woodwind Quintet, Haverford College, November, 1961, Philadelphia, February, 1962.

Psalm 130 for Chorus and Recorders, Bryn Mawr Community Music Groups, January, 1962.

Sonata for Horn and Piano, Haverford College, May, 1962.

Program Chairman, 1961-62, Philadelphia Chapter of the National Association for American Composers and Conductors.

DE GRAAF, FRANCES

Lectures: "The Soviet Union," Baldwin School, Bryn Mawr, Pa., March, 1961.

President of the Pennsylvania Chapter of the American Association of Teachers of Slavic and Eastern European Languages.

DESJARDINS, PAUL

Editorial Work: Augustine De Libero Arbitrio, Liberal Arts Press.

Lectures: Chaired five sessions of "Symposium on Catholicism in America," National Council on Religion in Higher Education, Madison, N.J., August, 1961; "Ignazio Silone," Bryn Mawr Interfaith, November, 1961; Panel on Relativism, Westtown School, May, 1962; "Oriental Music, Sculpture, Design," Philadelphia Museum, April, 1962; Faculty Research Talk on Plato, Haverford, February, 1962; "The Concept of Culture," International Seminar, Philadelphia, 1962; "Concept of Church," Scm, March, 1962; The Role of Dissent in Catholic Education," Philadelphia, May, 1962; "The Eccumenical Movement," Church of The Holy Trinity, Philadelphia, November, 1961.

Seminar on Oriental Thought, Columbia University, January-June, 1962.

Selection Committee, Danforth Fellowships.

Selection Committee, Kent Fellowships.

Central Committee and Board of Directors, National Council on Religion in Higher Education.

Hazen Theological Discussion Group.

Ecumenical Discussion Group, Philadelphia.

DIAMANT, ALFRED

Articles: "Bureaucratic Theory: Max Weber Rejected, Rediscovered, Reformed," published in mimeograph for the annual meeting of the American Political Science Association, September 6-9, 1961.

"Berlin—Focus or Symbol," *Haverford College Horizons*, Vol. III, No. 2, pp. 4-8, October, 1961.

"Pre-Law Training at Haverford," *Haverford College Horizons*, Vol. III, No. 4, p. 13, April, 1962.

Reviews: Charles E. Freedeman, "The Conseil d'Etat in Modern France," *Journal of Politics*, Vol. XXIII, No. 4, pp. 754-755, November, 1961.

Editorial Work: Rendered editorial judgment for the Princeton University Press and *The Journal of Politics*.

Lectures: Panel Member, "US-USSR: Coexistence, Fact or Fiction," broadcast, WFIL, World Affairs Council, May 20, 1962; "Recent Developments in Comparative Government," American Political Science Association at Indiana University, June 6, 1962.

Panel Member, "Civil Military Relations in Emerging Nations," American Society for Public Administration, April 12-14, 1962.

Member, Comparative Administration Group, American Society for Public Administration.

Visiting Associate Professor, Department of Public Law and Government, Columbia University, Summer Session, 1961.

Member, Conference Group, Central European Historians.

Consultant, Teachers College, Columbia University, March, 1962.

Member, Commission on International Affairs, American Jewish Congress.

DRAKE, THOMAS E.

Reviews: Larra Gara, "The Liberty Line: The Legend of the Underground Railroad," *Bulletin of Friends Historical Association*, Vol. 50, pp. 117-120, Autumn, 1961.

Lectures: "Quakerism and the Intellectual Tradition," Haverford College Chapter, Phi Beta Kappa, June 6, 1962.

Member, Board of Directors, Friends Historical Association.

DUNATHAN, HARMON

Paper: "The Structure of the Dihydroquinoline Dimers," American Chemical Society, Philadelphia, Pa., 1962.

Articles: with I. W. Elliott and Peter Yates, "The Structure of Heller's Dihydroquinoline Dimers," *Tetrahedron Letters*, No. 21, pp. 781-784, 1961.

FINGER, IRVING

Articles: with Carol Heller, "Immunogenetic Analysis of Proteins of Paramecium, I. Comparison of Specificities Controlled by Alleles and by Different Loci," *Genetics*, Vol. 47, 1962. With Carol Heller and Alexander Green, "Immunogenetic Analysis of Proteins of Paramecium, II. Coexistence of Two Immobilization Antigens within Animals of a Single Serotype," *Genetics*, Vol. 47, 1962.

Lectures: Biology Club, Swarthmore College; Microbiology Seminar, University of Rochester; Biology Seminar, University of Pennsylvania; Department of Embryology Seminar, Carnegie Institution of Washington.

FLIGHT, JOHN W.

Reviews: Frederic C. Grant, "Translating the Bible," *Journal of Bible and Religion*, Vol. XXIX, pp. 344-346, October, 1961.

Lectures: "Resurrection and Immortality," Central Friends Meeting, Adult Study Group, Philadelphia, May 13, 1962.

Preaching Engagements: Main Line Unitarian Fellowship, Devon, Pa., April 22, 1962.

FOSS, MARTIN

Books: *Logic and Existence*, Philosophical Library Inc., New York.

Lectures: "Religious Philosophy," Lebanon Valley College.

Preaching Engagement: United Brethren Church, Annville, Pa.

GLICKMAN, HARVEY

Parts of Books: Chapter, "The Roots of Crisis in the Congo," in *New Forces in Africa*, Public Affairs Press, 1962.

Articles: "The Toryness of English Conservatism," *Journal of British Studies*, Vol. 1, pp. 111-143, November, 1961.

Reviews: As Book Editor of *Africa Report*, Washington, D.C. Contributor of regular monthly column of reviews of recent books.

Editorial Work: Book Editor of *Africa Report*; rendered editorial judgment on manuscripts for Frederick Praeger, Incorporated.

Lectures: Panel Member, "The Future of Cuba," discussion program, *Analysis*, broadcast, WRCV, Philadelphia, Pa., July 20, 1961; "Some Reflections on the Roots of Crisis in the Congo," paper delivered at Georgetown University Colloquium on Africa, Washington, D.C., August 3, 1961; Discussant, "Contrasting Patterns of Political Modernization," Panel at the annual meeting of the American Political Science Association, St. Louis, September 7, 1961; Panel Member, "Political Dynamics in the New Africa," Eighth National Conference of the U.S. Commission for UNESCO, "Africa and the U.S.," Boston, October 24, 1961; Panel Member, "Changing African Concepts of Democracy," Ninth Annual Conference on International Education, New Education Fellowship, "Winds of Change in Africa," Queens College, New York, March 24, 1962; "The Uses of Traditionalism in Modern African Politics," Princeton University African Affairs Committee, Princeton, N.J., April 11, 1962; "Some Ideas on African Ideologies," Faculty Research Talk, Haverford College, December 15, 1961.

Ford Foundation, Fellow-Elect, Area Studies Training Program for Africa, 1962-63.

Member, Mayor's Committee on African-American Understanding, Philadelphia, Pa.

Elected Fellow of the African Studies Association.

Elected to Non-Resident Membership, Royal African Society.

Consultant, Department of Social Science, The RAND Corporation, Santa Monica, Calif.

Consultant, University of Pennsylvania research project, "Values and Foreign Policy."

GREEN, LOUIS C.

Lectures: "The Middle Ground Between Physics and Astrophysics," Engineers Club of ITE Circuit Breaker Co., Philadelphia; "Atomic Wave Functions which Include Correlation," Physics Colloquium, Bryn Mawr College, Bryn Mawr, Pa.; "Satellites, Rockets, and the New Tools in Astronomy," South Jersey Section of the American Chemical Society, Woodbury, N.J.; "The Milky Way," "Exploring the Universe," and "The Structure of the Universe," three lectures in the Astronomy Course at the Franklin Institute, Philadelphia.

Member: National Research Council Committee on Line Spectra of the Elements; Sub-Committee on Intensity Tables, International Astronomical Union; Regional Selection Committee of the Woodrow Wilson National Fellowship Foundation.

Group Discussion Leader: Conference on Education in Science for the Undergraduate Non-Science Concentrator, sponsored by the National Science Foundation and Michigan State University Oakland, at Michigan State University Oakland, Rochester, Mich.

GUTWIRTH, MADELYN

Reviews: Adrien Thierry, "La Marquise de Pompadour," *The French Review*, Vol. XXXV, No. 6, pp. 603-4, May, 1962.

Vice-President, Childbirth Education Association of Greater Philadelphia.

GUTWIRTH, MARCEL

Articles: "The Unity of Moliere's *L'Avare*," *PMLA*, Vol. LXXVI, No. 4, Part I, pp. 359-66.

"La Problématique de l'innocence dans le théâtre de Racine," *Revue des Sciences humaines*, Vol. XXVII, Fasc. 106, pp. 183-202.

Reviews: Stuart H. Hughes, "Consciousness and Society (The Reorientation of European Social Thought, 1890-1930)," *The French Review*, Vol. XXXV, No. 1, p. 116.

HARE, PAUL

Books: *Handbook of Small Group Research*, The Free Press, 1962.

Articles: "Computer Simulation of Interaction in Small Groups," *Behavioral Science*, Vol. 6, No. 3, pp. 261-265.

Deputy Representative, Peace Corps, Philippines.

HEATH, DOUGLAS

Articles: "Primary Process Correlates in a College Population," Symposium address at American Psychological Association, September, 1961.

Lectures: "Interpretations of Man," Talk to Freshman Class, September, 1961, Customs Committee, Haverford College.

HEISE, GEORGE A.

Articles: with L. O. Randall, W. Schallek, R. E. Bagdon, R. Banziger, A. Boris, R. A. Moe and W. B. Abrams, "Pharmacological and Clinical Studies on Valium™, a new psychotherapeutic agent of the benzodiazepine class," *Current Therapeutic Research*, 3, pp. 405-425, 1961.

Lectures: "Chlordiazepoxide: pharmacology and behavioral analysis in animals," Gordon Research Conference, New London, N.H., August 3, 1961; with Elizabeth Walker, "Selective action of d-amphetamine on fixed-ratio performance," Psychonomic Society, Columbia University, September 1, 1961; with Elizabeth Walker, "Investigations of the selective action of chlorpromazine on avoidance," Eastern Psychological Association, Atlantic City, April 28, 1962; "Selections from a research program in Psychopharmacology," Haverford-Bryn Mawr Psychology Club, March 7, 1962.

HETZEL, THEODORE B.

Articles: "Indian Rights and Wrongs in Alaska," *Indian Truth*, Vol. 38, No. 2, pp. 1-8. "Alaska, High, Wide and Handsome," *The Meeting*, No. 138, pp. 3-4.

Editorial Work: *Indian Truth*, Indian Rights Association.

Lectures: "Current Problems of Eastern Indians," Seven Springs Seminar, Champion, Pa.; "Problems of Indians and Eskimos in Alaska," International Club of Haverford College, Westtown School, Frankford Friends Meeting, Valley Friends Meeting, Sandy Spring Friends Meeting, Chestnut Hill Friends Meeting, Annual Meeting of the Indian Rights Association; "Friends and American Indians," Philadelphia Young Friends Movement, Haverford First Day School, Middletown (Langhorne, Pa.) Friends Meeting; "Current Issues in Services for the American Indian," Bryn Mawr College Graduate Department of Social Work and Social Research; "American Indians Today," Main Line Unitarian Fellowship; "Friends Work With Eskimos and Indians," Philadelphia Quarterly Meeting.

Preaching Engagement: "We Can Learn from American Indians," Main Line Unitarian Fellowship, April 1, 1962.

Chairman, Indian Program Committee, American Friends Service Committee.

Member of Board: Indian Rights Association, Council on Indian Affairs, William Penn Charter School, Emlen Institution.

Member of AFSC Community Relations Executive Committee, Youth Services Executive Committee, U.S. Projects Committee.

HUNTER, HOLLAND

Parts of Books: with Clair Wilcox and Willis Weatherford, "The Soviet Union," Chapter 2, pp. 28-50 and "Communist China," Chapter 4, pp. 80-100, *Economics of the World Today*, Harcourt, Brace and World, 1962.

"Union of Soviet Socialist Republics," *Collier's Encyclopedia Yearbook*, pp. 633-43, 1962.

"Optimum Tautness in Developmental Planning," *Economic Development and Cultural Change*, Vol. IX, pp. 561-72, July, 1961.

Reviews: Robert W. Campbell, "Soviet Economic Power"; Alec Nove, "The Soviet Economy"; David Granick, "The Red Executive," *The Russian Review*, pp. 188-90, April, 1962.

Lectures: "The Meaning of Coexistence," Teachers' Summer Workshop, Philadelphia, Pa.; "The Soviet Economic System," Air University, Montgomery, Ala.; "Soviet Versus U.S. Growth," Cheltenham Adult School, Cheltenham, Pa.; "Jasny's Stages of Industrialization," Washington Statistical Society, Washington, D.C.; "Transportation and Soviet Growth," American University, Washington, D.C.; "Soviet Economic Growth," National Defence College, Kingston, Ontario; "Our Contest with the Communists," Radnor Democratic Women's Club, Radnor, Pa.; "The 22nd Congress," Current Events Club, Bryn Mawr College; "The Soviet Welfare State," University of Pennsylvania; "The VISA Program," Old Haverford Friends Meeting, Oakmont, Pa.; "The Stages of Growth—Model or Muddle?" American Association of University Women, Lansdowne, Pa.; "The Soviet Economic Record," Dartmouth College, Hanover, N.H.

Board of Directors: American Association for the Advancement of Slavic Studies, The Baldwin School, The Fountain Valley School, Main Line School Night Association.

Consultant: The Ford Foundation, The Bendix Corporation.

AFSC Committees: Chairman, VISA Committee; Member, Executive Committee of Youth Services Division, International Conference and Seminar Committee.

Member, Haverford Township Democratic Committee.

Member, Grants-in aid Committee, Social Science Research Council.

HUSEMOLLER, DALE H.

Articles: "Ramified Coverings of Riemann Surfaces," *Duke Mathematical Journal*, Vol. 29, No. 1, pp. 167-174, March, 1962.

"Analytic Maps Between Riemann Surfaces," *Proceedings of the American Mathematical Society*, Vol. 13, No. 3, pp. 412-416, June, 1962.

KENNEDY, GEORGE

Articles: "An Estimate of Quintilian," *American Journal of Philology*, Vol. 83, pp. 130-146, April 1962.

Reviews: Manfred Fuhrmann, "Das systematische Lehrbuch," *American Journal of Philology*, Vol. 83, pp. 218-220, April 1962.

Editorial Work: Associate editor, "A bibliography of rhetoric and public address for the year 1960," *Speech Monographs*, Vol. 28, pp. 157-189, 1961.

Member, Managing Committee, American School of Classical Studies in Athens.

Vice-President, Pennsylvania division, American Association of University Professors.

LESTER, JOHN A., JR.

Reviews: J. Benjamin Townsend, "John Davidson: Poet of Armageddon," *English Fiction in Transition*, Vol. 1, pp. 54-57, 1962.

Editorial Work: Associate Editor, *The Wellesley Index to Victorian Periodicals*.

Consultant, Department of English, Macalester College, St. Paul, Minn.

Evaluator, Middle States Association of Colleges and Secondary Schools, Harpur College, Binghamton, N.Y., Feb. 25-28, 1962.

Member of the Board, Union Library Catalogue, Philadelphia, Pa.

Moderator, Winter Meeting, Association of College and Research Libraries, Philadelphia Chapter, January 23, 1962.

LOCKWOOD, DEAN, P.

Editorial Work: Editor, *Bulletin*, Library Associates of Haverford College.

Member, Editorial Board for Mediaeval and Renaissance Latin Translations and Commentaries.

Member, Advisory Council, Renaissance Society of America.

LOEWY, ARIEL G.

Articles: "Fibrinase I. Purification of Substrate and Enzyme," *Journal-Biological Chemistry*, Vol. 236, pp. 2625-2633, 1961.

"Fibrinase II. Some Physical Properties," *Journal-Biological Chemistry*, Vol. 236, pp. 2634-2643, 1961.

"Fibrinase III. Some Enzymatic Properties," *Journal-Biological Chemistry*, Vol. 236, pp. 2644-2647, 1961.

"Fibrinase IV. Effect on Fibrin Solubility," *Journal-Biological Chemistry*, Vol. 236, pp. 2648-2655, 1961.

"Fibrinase," (an abstract), *Proceedings of the 10th Annual Symposium on Blood*.

Editorial Work: Biology Editor for Holt, Rinehart and Winston, Inc.

Lectures: "Fibrinase, an Enzyme Involved in Protein-Protein Interaction," Department of Biochemistry, Dartmouth College, November, 1961; "Fibrinase," 10th Annual Symposium on Blood, Detroit, Mich., January, 1962; "Recent Developments in Molecular Biology," Stony Brook School, Long Island, N.Y., November, 1961; Calvin Coolidge High School, Washington, D.C., February, 1962; Participant in panel discussion organized by Delaware Valley Committee for Civil Liberties; Participant in panel discussion of SANE (center city chapter), April, 1962; Lecture to Women's International League for Peace and Freedom (Lower Merion Branch), May, 1962.

Visiting Lecturer for American Institute of Biological Science High School Lecture Program.

Panel Member for National Science Foundation Grant Awards, in Laboratory Experiments Development Program.

MAASS, JOACHIM

Books: *Zwischen Tag und Traum*, Kurt Desch Verlag, Munich, 1961.

Parts of Books: Introduction to *Das Junge Europa* (An anthology of prose and poetry by young European writers), Kurt Desch Verlag, Munich, 1962.

Member, International PEN Club.

Member, German Academy for Language and Literature, Darmstadt.

MACCAFFREY, WALLACE T.

Reviews: Anthony Upton, "Sir Arthur Ingram," *American Historical Review*, January, 1962.

Walter M. Stern, "The Porters of London," *Journal of Economic History*, March, 1962.

G. Eland, "Thomas Wotton's Letter-Book, 1574-86," *Renaissance News*, winter, 1961.

Honorary Research Associate, University College, University of London, 1961-62.

Member, Schuyler Prize Committee of the American Historical Association, 1961-65.

MACINTOSH, ARCHIBALD

Board of Overseers, the William Penn Charter School.

Member, The College Entrance Examination Board.

Visit to Africa for one month to meet with the Selection Boards of the African Scholarship Program of American Universities in Swaziland, Basutoland, Bechuanaland, and Southern Rhodesia.

MACKAY, COLIN

Articles: with Richard Wolfgang, "Reactions of Atomic Carbon with Simple Hydrocarbons—Evidence for C-H Bond Insertion," *Journal of the American Chemical Society*, Vol. 83, pp. 2399, 1961.

With Paul Polak, Henry Rosenberg and Richard Wolfgang, "The Reactions of Atomic Carbon with Ethylene," *Journal of the American Chemical Society*, Vol. 84, p. 308, 1962.

With Mary Pandow, Paul Polak, Richard Wolfgang, "On the Elementary Chemistry of Atomic Carbon," *Chemical Effects of Nuclear Transformations*, International Atomic Energy Agency, Vienna, 1961.

Lectures: "Some Reactions of Atomic Carbon with Simple Hydrocarbons," International Congress of Pure and Applied Chemistry, Montreal, August, 1961.

OAKLEY, CLETUS O.

Books: Serbo-Croat edition of *Principi Matematike* by Karl Alendorfer i Klitas Okli, Savremena Skola, Beograd, 1961.

Editorial Work: Referee, *American Mathematical Monthly*.

Lectures: "Boolean Algebra and Electrical Circuits," Mathematics Conference, Temple University; "Calculus as a Freshman College Course," Pennsylvania Council of Teachers of Mathematics, West Chester State College; "Modern Mathematics in the Junior High School," Haverford Junior High School, Parent Teachers Association.

National Science Foundation Lecturer to University of South Carolina, University of Alaska, University of South Dakota, and to high schools in Florida and Massachusetts.

Visiting Professor of Mathematics, University of Washington, Summer Quarter.

Consultant to NSF on Summer Institutes.

Consultant to Pennsylvania State Office of Education, Abington High School, Agnes Irwin School.

Chairman, Mathematics Writing Group, College Entrance Examination Board.

Chairman, Committee on Secondary School Lecturers, The Mathematical Association of America.

PALMER, FREDERIC

Articles: "Electrical Production of Ripples," *American Journal of Physics*, Vol. 30, No. 2, pp. 133-137, February, 1962.

Lectures: Principal Speaker at Banquet to Celebrate the Fiftieth Anniversary of the Founding of the Physics Club of Philadelphia, 1961.

Committee of Science and the Arts of the Franklin Institute. (Member, 39 years, Past Chairman.)

Planning Committee Member, Franklin Institute.

Chairman of two sub-committees, Franklin Institute.

Charter member and past president, Physics Club of Philadelphia.

PARKER, FRANCIS H.

Lectures: "Conceptual Discourse About Feeling," Association for Realistic Philosophy, Wellesley College; "Reason and Religious Inquiry," Student Christian Movement, Bryn Mawr; "A Demonstration of Epistemological Realism," Georgetown University; "The Ethics of Self-Realization," The Unitarian Fellowship, West Chester, Pa.; "Problems and Programs at Haverford," Western Pennsylvania Alumni Association of Haverford, Pittsburgh, Pa.

President of the Association for Realistic Philosophy.

Secretary-Treasurer of the Metaphysical Society of America.

Member of the Executive Committee of the Eastern Division of the American Philosophical Association.

PEPINSKY, ABRAHAM

Reviews: Fritz Winckel, "Phänomene des musikalischen Hörens," *The Journal of the Acoustical Society of America*, Vol. 34, No. 2, pp. 251-252, February, 1962.

Citation for 25 years as a Fellow of the Acoustical Society of America, May 24, 1962.

PERLOE, SIDNEY I.

Books: with G. S. Blum *et al.* *A Model of the Mind*, Wiley.

Articles: "Status as an Anchor in the Judgment of Occupational Prestige," *Journal of Abnormal and Social Psychology*, Vol. 63, pp. 671-674.

Review: Charles H. Stember, "Education and Attitude Change," *Contemporary Psychology*, Vol. 7, p. 203, June, 1962.

Editorial Work: Occasional editorial consultant for the *Journal of Abnormal and Social Psychology*.

Consultant, Motivation Study Group of North Philadelphia redevelopment project.

PFUND, HARRY W.

Article: "O Jahrhundert! O Wissenschaften!" *New Yorker Staatszeitung*, August 13, 1961.

Reviews: F. H. Mautner and H. Hatfield, "The Lichtenberg Reader: Selected Writings of G. F. Lichtenberg," *American-German Review*, Vol. XXVIII, No. 1, October-November, 1961.

Editorial Work: Associate Editor, *American-German Review*.

President, Carl Schurz Memorial Foundation.

Vice President, German Society of Pennsylvania.

Member, Board of Overseers, Erstes Deutsches Reichswaisenhaus, Lahr, Black Forest, Germany.

Trustee, Mary E. Seibert Kahl Foundation, Philadelphia, Pa.

Awarded Officer's Cross, Order of Merit, Federal Republic of Germany.

PICKETT, CLARENCE E.

Parts of Books: Chapter entitled "Quaker Counseling," *Handbook of Counseling Techniques*, August, 1961.

Articles: "Comments about the Next 25 Years," 25th anniversary issue of *Look* magazine, August, 1961.

"Juggernaut: The Warfare State," special commentary on the October 28 issue, *The Nation*, November, 1961.

Reviews: John B. Pickard, "John Greenleaf Whittier," in a Friends publication, November, 1961.

Lectures: "Germany—Retrospect and Prospect," opening of the Berlin photograph exhibit of the Carl Schurz Memorial Foundation, Philadelphia, September 20, 1961; spoke before Promoting Enduring Peace, New York City, October 11, 1961.

POST, L. ARNOLD

Books: Translation of Plato, *Epistles* (revised), *The Collected Dialogues of Plato*, etc., Bollingen Foundation through Random House.

Articles: "Virtue Promoted in Menander's *Dyscolus*," *Transactions of the American Philological Association*, 91, pp. 152-161, 1960.

Editorial Work: Loeb Classical Library, *Josephus VIII*.

Lectures: Dramatic reading of Menander, *Dyscolus*, The Hill School, February 23, 1962 and "Menander's *Dyscolus* Reconsidered," The Philadelphia Classical Club, January 5, 1962.

REESE, WILLIAM

Editorial Work: Edited Heinrich Schutz' *Saint John Passion*, published by Chantry Music Press.

Lectures: "Religious Music of Bach as it Pertains to Us," Chestnut Hill Society of Friends, Philadelphia, April 8, 1962.

Conducting Engagements: Conductor at the Annual Church Music Institute, sponsored by the Chaplain Division of the U.S. Army in Berchtesgaden, Germany, January, 1962.

RUDOLF, OTTOMAR

Articles: "Kritik am Deutsch-Amerikaner," *Philadelphia Gazette Democrat*, May 12, 1962.

Lectures: "Schwabische Dichtung," WCAM, Camden, N. J., January 1962.

SANTER, MELVIN

Articles: "Variation in Base Composition of Ribonucleic Acid in *Escherichia Coli*," *The Proceedings of the National Academy of Sciences*, Vol. 47, 1961.

"Heterogeneity of Ribosomes of *Escherichia Coli*," *Bacteriological Processes*, p. 109, 1962.

Convener: Session on Nucleic Acids, National Meeting of the American Society for Microbiology, Kansas City, Missouri, 1962.

Award: National Science Foundation, Senior Postdoctoral Fellowship.

SARGENT, RALPH M.

Lectures: "The Ericaceae of Eastern North America," Philadelphia Botanical Club, Academy of Natural Sciences, Philadelphia, Pa., February 22, 1962.

Reviews: Maxwell William, "The Chateau," *The Highlander*, p. 5, July, 1961.

Husson, "La Cuisine des Anges," translated Spewack, *The Highlander*, pp. 1-2, 1961.

National Council, Renaissance Society of America.

Committee on Policy and Organization, American Association of University Professors.

Trustee, Highlands Biological Station.

Trustee, Hudson Library.

Vice President, Philadelphia Botanical Club.

Board of Visitors, Union College.

SATTERTHWAITE, ALFRED

Editorial Work: Reader for The Princeton University Press.

Lectures: "Renaissance Literature," The Tower Hill School, Wilmington, Del., November, 1961.

Campus Representative, The Woodrow Wilson National Fellowship Foundation.

College Entrance Examination Board Supervisor, The Haverford School.

SELOVE, FAY AJZENBERG

Parts of Book: with T. Lauritsen, "Energy Levels of Light Nuclei," *New Series Landolt-Bornstein Critical Tables*, Vol. 1, p. 1.1-1.94, Springer-Verlag, 1961.

Articles: with L. Cranberg and F. S. Dietrich, "Energy Levels of Na^{21} and Mg^{22} ," *The Physical Review*, Vol. 124, p. 1548-1557, 1961.

Editorial Work: Member, Editorial Board, *Nuclear News*.

Lectures: Discussion Group leader, "Prelude to Choice," University of Pennsylvania, February 2, 1962; "Kinetic Theory," Physics 141 class at University of Pennsylvania, April 9, 1962.

Guest Associate Physicist, Brookhaven National Laboratory.

Grantee, National Science Foundation.

SMOLENSKY, EUGENE

Articles: with R. S. Ball, "The Structure of Multiplier—Accelerator Models of the United States Economy, 1909-1951," *International Economic Review*, pp. 294-329 September, 1961.

Lectures: with W. Ieard, "Applications of Input-Output Techniques to Regional Science," United Nations Conference on Input-Output, Geneva, Switzerland, September 11, 1961; "Recent Developments in the Study of Income Distribution," American Statistical Association, December 30, 1961 (Published in the *Proceedings*, Business and Economics Section, American Statistical Association); "Geography and Poverty," Undergraduate Economics Club, University of Pennsylvania, February 6, 1962.

Consultant, Penn-Jersey Transportation Study and Central Statistical Data Agency. Participant, Research Committee of the Citizens Committee for Delaware County.

Participant, Ford Foundation Conference on the Application of Theoretical and Empirical Techniques to Economic History, Purdue University, November, 1961.

SNYDER, EDWARD D.

Preaching Engagements: "Doctor Oliver Wendell Holmes, Unitarian," Main Line Unitarian Fellowship, November 12, 1961.

SOLOMON, LOUIS

Articles: "On the Sum of the Elements in the Character Table of a Finite Group," *Proceedings*, American Mathematical Society, Vol. 12, pp. 962-963, 1961.

"On Schur's Index and the Solutions of $G^n = 1$ in a Finite Group," *Mathematische Festschrift*, Vol. 78, pp. 122-125, 1962.

SOMERS, ANNE RAMSAY

Books: *Health Plan Administration: A Guide to the Management of Negotiated Hospital, Surgical, and Medical Care Benefits*, The Foundation on Employee Health, Medical Care, and Welfare, Inc., New York, 1961.

Articles: "Comprehensive Prepayment Plans as a Mechanism for Meeting Health Needs," *The Annals of the American Academy of Political and Social Science*, pp. 81-92, September, 1961.

"The Changing Impact of Fringe Benefits on Industrial Relations," *Labor Law Journal*, pp. 245-253, March, 1962.

With H. M. Somers, "Statement," *Hearings*, Committee on Ways and Means, House of Representatives, 87th Congress, 1st session on H. R. 4222, Vol. 4, pp. 1970-1974, July, 1961.

With H. M. Somers, "The Technological Revolution in Medicine," *Medical Economics*, pp. 217-271, February 26, 1961.

With H. M. Somers, "The Changing Doctor-Patient Relationship," *Medical Economics*, pp. 230-263, March 26, 1962.

Reviews: John and Sylvia Jewkes, "The Genesis of the British Health Service," *American Journal of Public Health*, pp. 707-8, April, 1962.

Lectures: "Hospital Planning: A Major Challenge of the Nineteen Sixties," Haverford College Corporation Annual Meeting, October 17, 1961; "Financial Implications of a Universal Health Plan," Western Conference of Prepaid Medical Service Plans, Victoria, B.C., November 3, 1961; "Some Trends and Issues in the Organization of Medical Care," Stanford Medical School, Senior Class, Palo Alto, Calif., November 8, 1961; "The Paradox of Medical Progress—Some Implications for the Nursing Profession," California State Nurses' Association, Los Angeles Branch, special meeting, November 9, 1961; "Fringe Benefits and Industrial Relations," University of California at Los Angeles, Institute of Industrial Relations, Certificate Award Dinner, November 10, 1961; "Planning for Health," University of Pennsylvania Department of City Planning, Graduate Seminar, December 5, 1961; "Planning for a Children's Medical and Health Center in Philadelphia: A Case Study in Community Health Organization," U.S. Public Health Service, Division of Community Health Services, Conference of Regional Representatives, Washington, D.C., February 2, 1962; "Current Issues in Health Insurance for the Aged," Bryn Mawr College, Graduate Department of Social Work and Social Research, February 28, 1962.

Staff, U. S. Public Health Service Survey of Child Care Needs and Resources in the Philadelphia Metropolitan Area, November, 1961 to date.

Member, American Friends Service Committee, Africa Committee.

Member, Radnor Meeting Social Order Committee.

SOMERS, HERMAN M.

Parts of Books: "The Interrelationship Between Public and Private Medical Care Programs," pp. 92-104, *Voluntary Action and the State*, International Universities Press, 1961.

"The Dilemma of the American Executive Branch," *The American Political Scene*, pp. 136-142, Little, Brown and Company, 1962.

Articles: with Anne R. Somers, "Statement," *Hearings*, Committee on Ways and Means, House of Representatives, 87th Congress, 1st session on H. R. 4222, Vol. 4, pp. 1970-1974, July, 1961.

"Statement and Testimony," *Hearings*, Committee on Interstate and Foreign Commerce, House of Representatives, 87th Congress, 2nd session on H. R. 4999, pp. 397-401, January 26, 1962.

With Anne R. Somers, "The Technological Revolution in Medicine," *Medical Economics*, pp. 217-271, February 26, 1961.

"What Scope Health Insurance?," *Bulletin of the Los Angeles County Medical Association*, pp. 14, 35, 38, March, 1962.

With Anne R. Somers, "The Changing Doctor-Patient Relationship," *Medical Economics*, pp. 230-263, March 26, 1962.

"Discussion: The Labor Forces in Special Industries," *Proceedings*, 14th Annual Meeting, Industrial Relations Research Association, Madison, Wisconsin, pp. 373-376, 1962.

"What Consumers Expect From Prepayment," *The Modern Hospital*, pp. 91-94, April, 1962.

Reviews: Monroe Berkowitz, "Workmen's Compensation: The New Jersey Experience," *Industrial and Labor Relations Review*, pp. 640-41, July, 1961.

"A Report on Social Security Programs in the Soviet Union," prepared by the United States Team that Visited U.S.S.R. Under the East-West Exchange Program, *American Political Science Review*, pp. 149-151, March, 1962.

Lectures: "The Financing of Medical Care," Employee Training Program, Bureau of Old-Age, Survivors and Disability Insurance, Baltimore, Md., July 5, 1961; Radio Interview on *Doctors, Patients, and Health Insurance*, Frank Ford Show, WPEN, August 28, 1961; "Dimensions of Demand," Conference on Health Care Issues of the 1960's, New York City, October 3, 1961; "Medical Care Problems of the Aged," Harvard University Medical School, Boston, Mass., October 6, 1961; "The Cost of Health," Annual Meeting, Directors of the Home for Jewish Aged, Philadelphia, Pa., October 13, 1962; "Organization: Door to Opportunity," Conference of Appeals Examiners, U. S. Civil Service Commission, November 14, 1961; "The Paradox of Medical Progress," Norfolk District Medical Society, Boston, Mass., November 28, 1961; "Issues in Medical Care During the Sixties," Main Line Medical Society, Bryn Mawr, Pa., December 11, 1961; "Voluntary Prepayment Plans and the Public," National Conference of Blue Cross and Blue Shield Officials, New Orleans, La., December 13, 1961; "Power Structures and the Federal Executive," Conference on Executive Leadership, Housing and Home Finance Agency, Williamsburg, Va., January 22, 1962; "The Liberating Force of Organization," Middle Management Institute, U. S. Civil Service Commission, Washington, D. C., January 23, 1962; Chairman, Panel, "Eisenhower and the Presidency," American Society for Public Administration, Philadelphia Regional Chapter, January 31, 1962; "What Scope Health Insurance?" Annual Conference of County Medical Society Officers, California Medical Association, Los Angeles, Calif., February 17, 1962; "Political Dynamics," Conference of Federal Science Administrators, Williamsburg, Va. Feb. 21, 1962; "Organization and the Individual," U. S. Civil Service Commission Middle Management Institute, Washington, D.C., April 10, 1962; "Policy Formation and the Administrative Process," Executive Development Conference, The Brookings Institution, Williamsburg, Va., April 11, 1962; "Health and Social Security," Headquarters, Bureau of Old-Age, Survivors, and Disability Insurance, Baltimore, Md., May 7, 1962; "Voluntary Health Insurance Faces the Future," Seminar for New England Blue Shield Plan Directors and Trustees, Portsmouth, N. H., May 20, 1962; "Power Structures and the Federal Executive," Executive Leadership

Institute, U. S. Civil Service Commission, Bethesda, Md., May 24, 1962; "How Can We Improve our Workmen's Compensation Systems?" Rutgers University, New Brunswick, N. J., June 5, 1962; "Political Dynamics," Executive Leadership Conference, Federal and State, Vocational Rehabilitation Officials, Brainerd, Minn., June 10, 1962; "Biological and Population Change and Social Adjustment," Liberty Mutual Insurance Co. Fiftieth Anniversary Forum on "The Impact of Technological and Social Change," Boston, Mass., June 14, 1962; "Politics and Administration," U. S. Civil Service Commission Executive Leadership Institute, Bethesda, Md., June 21, 1962; "Science and Administration," Seminar of Federal Science Executives, Williamsburg, Va., June 26, 1962.

Member, Committee on Social Insurance Terminology, American Risk and Insurance Association.

Member, Advisory Council, Department of Politics, Princeton University.

Consultant, Food and Drug Administration, Department of Health, Education, and Welfare.

Member, Committee on Medical Development, New York, N. Y.

Member, Committee on Program for Economic Studies, The Brookings Institution, Washington, D. C.

Consultant, Municipal Manpower Commission, Washington, D. C.

Member, Executive Board, Industrial Relations Research Association.

Member, Board of Directors, Inter-University Case Program.

Guest Participant, Conference on the Public Service, Princeton, N. J., March, 1962.

SPIEGLER, GERHARD

Books: Completed Ph.D. Thesis: *Between Relativism and Absolutism: A Study of Problematic Dimensions in the DIALEKTIK and DOGMATIK of Friedrich Schleiermacher*, University of Chicago, September, 1961.

Articles: "Historicism and Relativity," *Quest*, Vol. 2, pp. 9-24, winter, 1961.

Lectures: "Some Fundamental Presuppositions in the Metaphysic of G. W. F. Hegel," Philosophy Club, Haverford College, December, 1961; "The Anaesthesia of Religious Certainty," Bryn Mawr-Haverford Student Christian Movement, January, 1962.

SPIELMAN, JOHN P.

Lectures: "The Myth of the Gentleman's War, the Art of War in the Eighteenth Century," Ursinus College History Major's Annual Meeting, March 21, 1961.

STEERE, DOUGLAS V.

Books: *Dimensions of Prayer*, Cincinnati, O., 1962.

Pamphlet: "Living Selections from the Writings of Evelyn Underhill," *Great Devotional Classics*, The Upper Room, Nashville, Tenn.

Articles: "The Spiritual Renewal of Our Time," *Union Theological Seminary Quarterly Review*, December, 1961.

"1961 Letter on Africa," mimeographed by American Friends Service Committee, published in *Oxonian*, Vol. XLIX, No. 2, pp. 84-92, April, 1962.

"Catholic-Protestant Encounters on European Continent (1918-1961)," mimeographed by Theological Discussion Group, Washington, D.C., 1961.

"Report on a Normative Study of Southern Methodist University," Dallas, Texas, 1962.

Reviews: "Theology of Romantic Love in Charles Williams," *Journal of Academy of Religion and Mental Health*.

Editorial Work: Consultant on Religious Books, Harper and Brothers.

Member Editorial Board, *Religion in Life*.

Lectures: 10 Auburn Lectures, Union Theological Seminary, New York, N. Y., October-November, 1961.

Harry Emerson Fosdick Visiting Professor at Union Theological Seminary, 1961-62.

Chairman of Board of Managers, Pendle Hill.

Board of Trustees, Woolman House; Wainright House; Binder-Schweitzer Amazonian Hospital.

AFSC: United Nations Committee; VISA Committee.

Member of Commission of Six Appointed by Board of Higher Education of Methodist Church for a Normative Study of Southern Methodist University, Dallas, Texas.

Chairman of Delegation of American Churchmen who participated in an East-West Religious Colloquium, Karlsbad, Czechoslovakia, January 23-27, 1962.

SWAN, ALFRED J.

Lectures: Recorded talk at BBC Studios, July 17, 1961; Course of four lectures on Elizabethan and Jacobean Music, University of Aix-Marseilles, Nice, July 24-28, 1961; "Russian Composers of the Liturgy," Third Program, BBC, February 20, 1962; "The Orthodox Liturgy," Fellowship of St. Albans and St. Sergius, Oxford University Branch, June 6, 1962.

TEAF, HOWARD M., JR.

Reviews: International Bank for Reconstruction and Development, "The Economic Development of Tanganyika, Report of a Mission Organized by the I.B.R.D.," *Africa Report*, Vol. 6, No. 11, p. 20, December, 1961.

Editorial Work: *Proceedings*, Pennsylvania Conference of Economists, Fourth Meeting, 1961.

Lectures: Talks on Haverford College and its Future to groups of alumni in Wilmington, Connecticut, and Boston.

American Friends Service Committee: Program Priorities Committee, International Affairs and Services Executive Committee, Social and Technical Assistance Program Committee, Volunteers for International Service Program Committee.

Member, Commission on Role and Responsibility of the Consumer, Department of the Church and Economic Life, National Council of Churches of Christ.

Advisory Committee, Research Project on Valuation of Life Insurance Company Investments.

Labor Arbitrations, National Academy of Arbitrators, Committee on Research.

Danforth Foundation Workshop on Liberal Arts Education, June-July, 1962.

THOMPSON, CRAIG R.

Reviews: J. H. Lupton, "Life of John Colet," *American Historical Review*, Vol. LXVII, 471, 1962.

Lectures: "The Nature of Academic Provincialism," Phi Beta Kappa lecture, Dickinson College, October, 1961; Panelist, Meeting of District Members of Association of College and Research Libraries on "Departmental Libraries," Swarthmore College, January, 1962.

Fellow, Folger Shakespeare Library, summer, 1961.

Member of the Council, American Society for Reformation Research.

WALTER, ROBERT I.

Articles: with M. M. Chen, K. V. Sane, and J. A. Weil, "Solution Paramagnetic Resonance Studies of Para-Substituted Hydrazyl Free Radicals," *Journal of Physical Chemistry*, Vol. 65, p. 713, 1961.

With M. M. Chen, and A. F. D'Adamo, "The Preparation of Substituted 1-Picryl-22-diphenylhydrazyl Free Radicals," *Journal of Organic Chemistry*, Vol. 26, p. 2721, 1961.

Lectures: "A Molecular Orbital Treatment of Substitution Effects in Stable Organic Free Radicals," Chemistry Colloquium, Bryn Mawr College, November 3, 1961; "The Estimation of Exchange Integrals for Molecular Orbital Calculations," Delaware Valley Regional Meeting, American Chemical Society, Philadelphia, Pa., January 25, 1962; "Substitution Effects in Stable Organic Free Radicals," Eastern Regional Research Laboratory, U. S. Department of Agriculture, January, 1962.

Member, Middle Atlantic States Association of Colleges and Secondary Schools Panel for evaluation of Lower Merion Senior High School, February 13-16, 1962.

Honors Examiner, Swarthmore College, June, 1962.

WILLIAMSON, ROBERT C.

Articles: "Las Actitudes Estudiantiles y sus Determinantes," *El Espectador*, January, 1962.

"Social Class Determinants of Perception and Adjustment in an Adolescent and Adult Sample: El Salvador," *Journal of Social Psychology*, Vol. 57, pp. 11-21, 1962.

Reviews: F. Lemesnil, "Les Relations Humaines dans L' Entreprise et la Condition Salariale," *Sociology and Social Research* Vol. 46, p. 217, 1962.

B. Holas, "Changements Sociaux en Cote d'Ivoire," *Sociology and Social Research*, Vol. 46, p. 218, 1962.

Lectures: "Algunos Factores en la Integración étnica en los Estados Unidos," Centro Colombo-Americano, Barranquilla, August 1, 1961; "Un Vistaje a la Industria Cinematografica de Hoy," Universidad del Valle, Calif., August 28, 1961; "A Dónde va la Familia Norteamericana?" Biblioteca Luis Arango Angel, Bogota, August 31, 1961; "Un Sociólogo Norteamericana visita a la Unión Soviética," Universidad Técnica, Bucaramanga, October 5, 1961.

Fulbright Lecturer, School of Sociology, National University of Colombia, February-December, 1961.

Consultant and Lecturer, Peace Corps, Arizona State University, March 26-28, 1962

REPORT OF THE TREASURER

presented at the

*Annual Meeting of the Corporation
of Haverford College*

October 16, 1962

THIS year Haverford has changed its fiscal year to conform to general academic practice and more convenient financial procedures. As the ancient legal maxim goes, "for a time whereof the memory of man runneth not to the contrary," our fiscal year has been from September 1st to August 31st; we have now changed to the year ending June 30th, and are reporting for a ten months period, September 1st, 1961 to June 30th, 1962. Therefore, though adjustments have been made, comparison of items of income and expense cannot properly be made to prior years.

OPERATIONS

For the ten month period we show an operating loss of \$19,467.53 which is charged to our income reserve account. This account, as you may recall, is in fact a profit and loss account, set up several years ago and, fortunately, has been added to in almost every year since its creation.

Tuition was raised September 1st, 1961, and although not in the reported fiscal year, it was again raised in 1962, as were faculty salaries by an average of 9% in 1961 and 9% in 1962. It might be of interest to the members of the Corporation to set forth the salary bands and average salaries after the increase of 1962. It should be noted that, in addition to the figures given, the College pays 12% TIAA contribution and also gives substantial fringe benefits by way of medical care, low housing charges, and educational grants.

				<i>Average</i>
Professor	\$12,000	—	\$17,000	\$13,574
Associate Professor	9,400	—	11,750	10,225
Assistant Professor	7,200	—	9,300	8,262
Instructor	5,800	—	7,200	7,000

FORTY-SEVEN]

FUNDS AND GRANTS

Our total income from endowment (calculated on a twelve months basis), I am glad to report, increased from \$737,031 in 1961 to \$750,075 in 1962. Our donations for General and Special purposes (in addition to the gifts to the Development program and funds set aside as Annual Giving) increased to \$46,961. The gifts for scholarship purposes (with a certain portion permitted by several of the Corporate donors to be used for the general operating expenses of the College) remained at about the same figure as a year ago of \$43,655.

Again, substantial grants for various faculty projects were received from corporations and from the National Institutes of Health and the National Science Foundation. These totaled \$73,322. We are also much indebted to the National Science Foundation for a substantial grant of \$36,400 toward the purchase of an I.B.M. electronic computer, to be used jointly with Bryn Mawr College. Mention, with gratitude, also should be made of the considerable discount given by the International Business Machines Corporation to the colleges in making this valuable facility available.

In a consideration of the expenditures, it should be noted that nearly \$68,000 of our general funds was taken for scholarship purposes in addition to the income from scholarship funds of \$33,000. From the income of one-half the Philips Funds available for visitors and the library, \$18,000 was spent for books, periodicals and rare books, \$20,000 for honoraria to visitors and \$9,000 for miscellaneous expenses including publicity and entertainment of these visitors. When we consider the immense value which the Philip's visitors have been to the college in connection with science, it is gratifying to report an anonymous gift of \$36,900 "to enable the college to bring to Haverford distinguished scholars in the humanities."

HOUSING

As housing, which might be available for faculty, and which is located very near to the campus, becomes available at suitable prices, the college has made judicious purchases. This year we acquired the comfortable house and lot (#754 College Avenue) immediately across from the campus.

Also in pursuance of our policy of enabling faculty to obtain

satisfactory housing, we are taking mortgages at less than current interest rates, on two houses being constructed by faculty members off campus.

ENDOWMENT

As most of you are aware, there was somewhat of a decline in the stock market just prior to the close of our fiscal year. This reduced the unit value of our Consolidated Investment Fund by about 10% from that of August 30, 1961 when it had a value of 25.55; as of June 30, 1962 it was 22.78. Twenty-three years ago it was 10. The reason for the smallness of the decline is that, for better or worse, we do not have in our portfolio many "glamour" stocks in which the heaviest declines occurred. On the other hand, we do hold a large number of shares of oil companies in which there was scarcely any loss and of utility companies where the declines were not so great. The percentage of securities held in Consolidated Investment Account for the two years at market value is as follows:

<i>1960-61</i>		<i>1961-62</i>
19.22	<i>Bonds</i>	21.46
8.69	<i>Preferred Stock</i>	9.43
67.22	<i>Common Stock</i>	62.97
.67	<i>Mortgages</i>	.78
3.96	<i>College Real Estate</i>	5.00
.24	<i>Miscellaneous</i>	.36

One significant move was made during the months of falling prices; we sold \$585,000 of straight yielding bonds and purchased with the proceeds convertible debentures which will, we trust, increase in value over the coming years.

The yield on market value, of course, went up with the declining market; and on our total investments of funds and trusts (less the college real estate) the yield on book value was 6.04% as contrasted with 5.92% a year ago and on market value 4.3% as contrasted with 3.69% last year.

On June 30th, 1962 the market value of our Consolidated and Non-Consolidated Investments was \$14,353,129 and of the Philips Fund \$3,730,136. The William Maul Measey Trust is elsewhere accounted

for, and has a book value of \$1,242,850 and a market value considerably in excess of that figure. Capital gains in the amount of \$185,931 were realized in the Consolidated Investment account and \$40,935 in the Philips account.

THE FUTURE

This year might be an appropriate moment to call the corporation's attention to the fact that the conduct of a small college of the highest grade, such as ours, is a very expensive undertaking. We are blessed with a very large per student endowment and we are also favored with a tradition of academic excellence which must be preserved; yet we incur a deficit.

The question may well be asked: why do we not increase the size of the student body thus increasing our income? However, the solution is not as simple as that; if we take in more students at \$2,300 for each additional student, and it costs us \$3,705 for each such student, it is crystal clear that we would rapidly proceed backward. This is so unless we can arrange our immense assets of faculty and plant so that we can absorb additional students without increasing per capita costs.

I feel certain that a way must, and can be found, to do just that. It will take study, it will take perseverance, and above all it will take imagination by the Board, by the Administration and by the faculty. We must all seek diligently and we must find in the near future, a solution to this problem peculiar to our small but excellent institution!

WM. MORRIS MAIER

Lawrence E. Brown & Company

ESTABLISHED 1882

Certified Public Accountants

W. EDWIN DILL
ROBERT W. JOHNSTON
R. CARL SHODS
ADDISON R. BROWN, JR.
ALBERT F. ZANGER

1917 FIDELITY-PHILADELPHIA TRUST BUILDING

PHILADELPHIA

September 25, 1962

To the Board of Managers
The Corporation of Haverford College
Haverford, Pennsylvania

Gentlemen:

We have examined the balance sheet of The Corporation of Haverford College as at June 30, 1962, and the related statements of receipts and expenditures, operating statement and report on the funds for the ten months period then ended. Our examination was made in accordance with generally accepted auditing standards, and accordingly included such tests of the accounting records and such other auditing procedures as we considered necessary in the circumstances.

Land, buildings, improvements, furniture and equipment are written off as their cost is funded. Therefore the plant section of the balance sheet shows these assets at no value. Investment income is collected by a fiscal agent and remitted to the College at the beginning of the month following the month of collection. In prior years, such income was recorded by the College in the month received from the fiscal agent. For the ten months period ended June 30, 1962, investment income has been recorded in the month received by the fiscal agent. The result of this change is that eleven months of investment income is included in the attached statements for the ten month period ended June 30, 1962.

In our opinion, subject to the above comment relating to land, buildings, improvements, furniture and equipment, the accompanying balance sheet and the related statements of income and expenditures, operating statement and report on the funds present fairly the financial position of The Corporation of Haverford College at June 30, 1962 and the results of its operations for the ten months period then ended, in conformity with generally accepted accounting principles for educational institutions which have been applied on a basis consistent with that of the preceding year, except for the above change in recording of investment income, of which we approve.

Very truly yours,

Lawrence E. Brown & Co.

Certified Public Accountants

FIFTY-ONE]

BALANCE SHEET—

ASSETS

Current

Cash	\$ 408,925.67	
Due from Endowment, Cash invested	338,377.86	
Accounts receivable, loans etc.	136,319.20	
Prepaid insurance and expenses	83,464.55	
Inventories	33,047.19	
Deferred charges	<u>4,788.95</u>	\$1,004,923.42

Endowment

Investments—Bonds, stocks and mortgages	\$12,498,420.12	
(Market value \$17,366,198)		
Loan to Haverford College Loan Fund	13,000.00	
Notes receivable	28,637.55	
Perpetual fire insurance deposits	8,761.10	
Investment in college real estate	<u>711,825.46</u>	13,260,644.23

Plant

Land, buildings, improvements, furniture and equipment	<u>0</u>
--	----------

\$14,265,567.65

JUNE 30, 1962

LIABILITIES

Current

Federal withholding and social security taxes payable . . .	\$	25,401.84
Advance receipts for following year		17,236.24

Reserves

For operational expenditures	\$186,253.07	
Pensions, non-faculty	118,154.11	
Death benefits, non-faculty	10,700.00	
Medical reimbursement plan	23,320.98	
Faculty research fund	4,638.63	
Library replacements	7,384.45	
Property maintenance and replacement . .	14,510.98	
Griscom House renovation	5,000.00	
Skating pond	418.85	
Development program and Science Building	82,827.95	
Miscellaneous	2,367.03	
Income reserve account	79,349.97	534,926.02

Donations

Alumini annual giving		
For operations of following year . .	\$82,975.41	
For subsequent year . .	10.00	\$ 82,985.41
For special purposes	178,438.10	261,423.51

Unexpended Balance of Income

From endowment funds for special purposes	114,163.47	
Trust fund principal for building program	51,772.34	\$ 1,004,923.42

Endowment

For general purposes	\$ 6,740,605.39	
For T. Wistar Brown Graduate School	394,925.58	
For Morris Infirmary	14,712.94	
For Haverford Union	1,878.82	
For scholarships	542,311.47	
For library	342,447.87	
For old style pensions	244,070.33	
For special purposes	151,983.18	
Augustus Taber Murray Research Scholarship Fund	26,705.42	
John Farnum Memorial Fund	31,741.22	
William Pyle Phillips Fund	2,526,902.15	
C. Wharton Stork Art Gift Fund	23,200.00	
Walter R. Faries Scholarship Fund	65,292.69	
Philip B. and Louise Spahr Deane Fund	10,735.00	
Undistributed gain—Consolidated Invest. Acct.	1,804,754.31	
	\$12,922,266.37	
Due to current funds, cash invested	338,377.86	13,260,644.23
		<u>\$14,265,567.65</u>

OPERATING STATEMENT

For the 10 months Period ending June 30, 1962

Receipts at College—Applicable to the Budget

Tuition

Cash	\$438,085.37		
Scholarships from General and Scholarship Funds	101,389.72		
Wm. Maul Measey Trust—Student Aid	42,372.72		
Scholarships from donations	<u>36,109.69</u>	\$617,957.50	
Board	192,857.71		
Rooms	106,554.00		
Board and Rooms from non students	39,612.01		
Unit Fee	58,610.00		
Miscellaneous Receipts		<u>35,777.54</u>	\$1,051,368.76

Income from Funds—Applicable to the Budget

Consolidated Investments—General Funds	\$ 392,617.43
Wm. Pyle Philips Fund—General	63,895.49
John Farnum Memorial Fund	1,541.03
C. Wharton Stock Art Gift Fund	486.69
Special Stork Dividend Account (for Property Maintenance & Replacement)	19,219.50
Current Funds invested	<u>14,324.09</u>

From Trusts

W. Percy Simpson	1,613.50		
Henry C. Brown	<u>987.45</u>	<u>2,600.95</u>	494,685.18

Donations Applicable to the Budget

General Purposes	80,564.27		
Other donations	45,921.03		126,485.30
Interest received			<u>1,223.30</u>
		TOTAL RECEIPTS	\$1,673,762.54

Expenses of running the College

Administration	\$189,810.23		
Educational Department	887,826.65		
Maintenance and Operation	308,939.10		
Dining Room and Kitchen	222,653.77		
Development	<u>28,956.33</u>	\$1,638,186.08	

Miscellaneous Expenses

Treasurer's Secretary's, Legal, Board expenses and services	\$ 13,345.79		
Old Style Pensions	13,333.34		
Interest paid	2,998.27		
Working aid to students	9,018.65		
Faculty Tuition Grants	3,478.65		
Pensions to Non Faculty and Reserve	11,869.29		
Reserve for Non Faculty Death Benefits	<u>1,000.00</u>	<u>55,043.99</u>	<u>1,693,230.07</u>
		OPERATING LOSS	\$ 19,467.53

INCOME RESERVE ACCOUNT

June 30, 1962

Balance in Reserve August 31, 1961	\$98,817.50
Operating Loss for year 1961-1962	<u>19,467.53</u>
Net Postion of Income Reserves June 30, 1962	<u><u>\$79,349.97</u></u>

NON-FACULTY PENSIONS RESERVE ACCOUNT

RECEIPTS

Balance September 1, 1961	\$106,656.21	
Composed of accumulated reserves and interest		
Added:		
Yearly payments for future and past services	9,116.00	
On account of payments to retired persons	2,753.29	
Interest	<u>2,916.40</u>	\$121,441.90

EXPENDITURES

Pensions paid to seven persons:

Mabel Beard, Alfred J. Harris, Anna B. Hewitt, Mary Norris, J. Otto Rantz, Emanuel Strothers, Walter Muraski	<u>3,287.79</u>
Balance June 30, 1962	<u><u>\$118,154.11</u></u>

NON-FACULTY DEATH BENEFIT RESERVE FUND

Balance September 1, 1961	\$ 9,700.00
Composed of accumulated reserves	
Annual appropriation	<u>1,000.00</u>
Balance June 30, 1962	<u><u>\$ 10,700.00</u></u>

REPORT ON CONSOLIDATED FUNDS

PRINCIPAL		INCOME			
Book Value	Book Value			Cr.	Special
9/1/61	6/30/62		Balance	Balance	Income
			9/1/61	6/30/62	Summary
Increase					
\$ 106,302.64	\$ 106,302.64		\$		
10,640.09	10,640.09	General Endowment Fund.....	7,145.09	\$ 7,145.09	
44,806.59	44,806.59	John M. Whittall Fund.....	722.85	722.85	
11,364.35	11,364.35	David Scull Fund.....	2,246.76	2,246.76	
5,144.24	5,144.24	Edward L. Scull Fund.....	874.98	874.98	
10,781.94	10,781.94	Wistar Morris Memorial Fund.....	453.82	453.82	
1,301,375.34	1,301,375.34	Israel Franklin Whittall Fund.....	740.04	740.04	
275,899.76	275,899.76	Jacob P. Jones Endowment Fund.....	97,555.07	62,705.07	\$ 34,850.00 ¹
21,493.67	21,493.67	John Farnum Brown Fund.....	17,441.15	17,321.15	120.00 ²
42,394.72	42,394.72	Clementine Cope Endowment Fund.....	765.82	765.82	
9,160.24	9,160.24	Joseph E. Gillingham Fund.....	3,561.80	3,561.80	
45,035.96	45,035.96	Elizabeth H. Farnum Fund.....	787.32	787.32	
1,500.00	1,500.00	James R. Magee Fund.....	2,850.13	2,850.13	
39,515.48	39,515.48	Albert K. Smiley Fund.....	134.08	134.08	
174,560.31	174,560.31	Hinchman Astronomical Fund.....	3,001.40	3,001.40	
26,771.00	26,771.00	Walter D. & Edith M. L. Scull Fund.....	14,802.45	14,802.45	
24,381.59	24,381.59	Albin Garrett Memorial Fund.....	2,792.54	2,792.54	
		Arnold Chase Scattergood Memorial Fund.....	1,250.58	1,250.58	
125,569.51	125,569.51	Francis B. Gummere Memorial Fund.....	9,617.90	9,617.90	
218,728.43	218,728.43	Isaac Sharpless Memorial Fund.....	15,619.85	15,619.85	
126,076.83	126,076.83	General Education Board Fund.....	10,255.66	10,255.66	
102,067.43	102,067.43	William Penn Foundation.....	7,842.15	7,842.15	
14,125.79	14,125.79	Walter Carroll Brinton Memorial Fund.....	1,205.89	1,205.89	
25,128.94	25,128.94	Corporation Fund.....	1,547.12	1,547.12	
10,000.00	10,000.00	Elizabeth J. Shortridge Fund.....	67.04	67.04	
5,527.31	5,527.31	Howard Comfort Memorial Fund.....	351.54	351.54	
67,520.19	67,520.19	Ellen W. Longstreth Fund.....	5,909.98	5,909.98	
5,000.00	5,000.00	Albert L. Bailey Fund.....	429.75	429.75	
4,950.00	4,950.00	Elizabeth B. Wistar Warner Fund.....	397.95	397.95	
280,764.31	280,764.31	T. Allen Hilles Bequest.....	19,228.92	19,228.92	
7,000.00	7,000.00	Leonard L. Greif Jr. & Roger L. Greif Fund.....	478.75	478.75	
2,500.00	2,500.00	Edward M. Wistar Fund.....	227.77	227.77	
1,429,792.09	1,429,792.09	Morris E. Leeds Fund.....	75,265.44	52,783.80	22,481.64 ¹
\$4,575,878.75	\$ 4,575,878.75	Forward	\$305,571.64	\$305,571.64	\$ 57,451.64

PRINCIPAL		Book Value 6/30/62	FUNDS FOR GENERAL PURPOSES (CONT'D)				Cr. Balance 6/30/62	Special Income Summary
Book Value 9/1/61	Increase		Balance 9/1/61	Net Income	Expended	Special		
FUND FOR WISTAR BROWN GRADUATE SCHOOL								
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PRINCIPAL			Book Value 6/30/62	Balance 9/1/61	Net Income	INCOME		Cr. Balance 6/30/62	Special Income Summary
Book Value 9/1/61	Increase	Expended				Special			
FUNDS FOR MORRIS INFIRMARY									
\$	9,653.44	\$	9,653.44	\$	790.75	\$	790.75		
	5,059.50		5,059.50		430.61		430.61		
\$	14,712.94	\$	14,712.94	\$	1,221.36	\$	1,221.36		
FUNDS FOR HAVERFORD UNION									
\$	1,878.82	\$	1,878.82	\$	92.84	\$	92.84		
FUNDS FOR SCHOLARSHIPS									
\$	5,257.82	\$	5,257.82	\$	119.34	\$	440.07	\$	159.41
	6,069.23		6,069.23		111.52		422.88		134.40
	19,817.40		19,817.40		274.61		1,020.24		1,150.00 ¹
	5,056.25		5,056.25		117.20		464.99		350.00 ¹
	7,013.61		7,013.61		105.37		488.20		450.00 ¹
	7,919.76		7,919.76		137.70		609.39		500.00 ¹
	22,845.86		22,845.86		3,830.56		1,316.77		750.00 ¹
	10,202.21		10,202.21				404.83		500.00 ¹
	7,434.26		7,434.26		176.07		513.99		190.06
	5,155.85		5,155.85		130.71		454.68		171.11
	15,109.13	\$1,400.00	16,509.13		371.99		961.75		433.74
	5,045.60		5,045.60		—	119.21	358.42		239.21
	22,250.00		22,250.00		515.02		1,868.57		683.59
	5,017.31		5,017.31		147.75		308.56		56.31
	3,000.00		3,000.00		147.75		308.56		400.00 ¹
	11,200.00		11,200.00		257.86		257.86		360.00 ¹
	10,000.00		10,000.00		257.86		764.96		872.00 ¹
	75,534.58		75,534.58		177.34		639.47		600.00 ¹
	40,275.01	1,100.00	41,375.01		1,584.87		6,491.87		5,739.27 ¹
	17,050.00		17,050.00		769.08		3,042.98		2,900.00 ¹
					370.66		1,358.88		1,280.00 ¹
\$	361,253.88	\$2,500.00	\$ 303,753.88	Forward	\$ 9,225.90	\$ 22,189.36		\$ 20,105.55	\$11,309.71

PRINCIPAL		INCOME				Cr.
Book Value 9/1/61	Book Value 6/30/62	Balance 9/1/61	Net Income	Expended	Special	Balance 6/30/62
Increase						
\$ 301,253.88	\$ 303,753.88					
5,000.00	5,000.00					
30,000.00	30,000.00					
3,000.00	3,000.00					
20,000.00	20,000.00					
15,000.00	15,000.00					
2,700.00	2,800.00					
50,082.18	50,374.84					
292.66						
359.51						
15,703.13	16,062.64					
25,000.00	25,000.00					
6,245.11	6,245.11					
5,000.00	5,000.00					
6,000.00	6,000.00					
10,000.00	10,000.00					
1,000.00						
6,000.00	7,000.00					
12,575.00	12,575.00					
2,000.00	2,000.00					
5,465.98	7,034.02					
10,000.00	10,000.00					
\$ 521,025.28	\$ 542,311.47					
\$ 17,435.06	\$ 17,435.06					
68,269.99	68,269.99					
5,000.00	5,000.00					
20,306.74	20,306.74					
111,011.79	\$ 111,011.79					

PRINCIPAL		Book Value 6/30/62	FUNDS FOR THE LIBRARY (CONT'D)				Net Income	INCOME		Cr. Balance 6/30/62	Special Income Summary
Book Value 9/1/61	Increase		Forward	Balance 9/1/61			Expended	Special			
FUNDING SUMMARY											
\$ 111,011.79		\$ 111,011.79	Anna Yarnall Fund.....	\$ 5,327.16	\$6,993.82	\$1,029.69	\$ 11,406.98	\$ -115.69			
173,078.14		173,078.14	F. B. Gummere Library Fund.....	61.54	14,350.35	11,256.84	3,093.51 ⁴	49.36 ⁴		63.75	
635.47		635.47	Edmund Morris Ferguson, Jr. Mem'l Fund.....		85.96		10.66 ⁴		236.21		
1,002.34		1,002.34	Class of 1888 Library Fund.....	160.91	562.98				3,038.09		
6,550.00		6,550.00	Class of 1918 Library Fund.....	2,475.11	107.44				714.93		
1,253.52		1,253.52	Quakeriana Fund.....	607.49	51.57				33.72		
600.00		600.00	Mohank Fund for Rufus M. Jones	24.36							
1,500.00		1,500.00	Coll. Myst.....	922.59	110.88				876.80		
5,000.00		5,000.00	Rufus M. Jones Book Fund.....	3,302.47	370.45				3,519.52		
37,150.59	218.40	37,368.99	1949 Campaign Library Fund.....	1,451.41	2,184.01				1,800.05		
2,111.47	125.00	2,236.47	Class of 1909 R. M. Jones Mem'l Library Fund.....		78.14				192.38 ⁴		
1,000.00		1,000.00	Rayner W. Kelsey Fund.....	87.34	33.52				48.29 ⁴		
	1,211.15	1,211.15	Sara & Francis Pawling Library Fd.	6.67	8.24						
\$ 340,893.32	\$ 1,554.55	\$ 342,447.87		\$14,427.05	\$ 24,988.93	\$ 12,286.53	\$ 16,988.83	\$10,140.62	\$16,988.83		
FUNDING SUMMARY											
\$ 41,237.08		\$ 41,237.08	President Sharpless Fund.....	\$	3,269.57	\$ 3,269.57					
36,758.66		36,758.66	William P. Henszey Fund.....		3,190.50	3,190.50					
68,113.78		68,113.78	Jacob P. Jones Benefit Fund.....		4,235.66	4,235.66					
3,272.24		3,272.24	Pliny Earle Chase Memorial Fund...		268.17	268.17					
104,715.73	\$10,027.16	94,688.57	Haverford College Pension Fund....		8,367.31	8,367.31					
\$ 254,097.49	\$10,027.16	\$ 244,070.33		\$ 19,331.21	19,331.21						
FUNDING SUMMARY											
\$ 5,248.00		\$ 5,248.00	Thomas Shipley Fund.....	\$ 305.71	\$ 450.38	\$	274.45 ⁵	\$ 481.64			
1,126.75		1,126.75	Elliston P. Morris Fund.....	.79	180.00		200.00 ²	1.43			
					20.64						
4,197.87		4,197.87	John B. Garrett Reading Prize Fd.	682.08	265.59		231.84 ⁶	947.67			
9,227.07		9,227.07	Special Endowment Fund.....	2,180.22	543.21		2,491.59	2,491.59			
2,296.88		2,296.88	Scholarship Improvement Prize Fd.	938.88	206.28		95.00 ²	1,050.16			
1,727.00		1,727.00	Elizabeth P. Smith Fund.....	1,817.21	148.69		180.00 ²	1,785.90			
2,546.88		2,546.88	S. P. Lippincott History Prize Fund.	4.27	100.00		200.00 ²	-13.66			
					232.07		150.00 ⁴				
26,370.45	\$	26,370.45	Forward	\$ 5,929.16	\$ 2,146.86	\$	1,331.29	\$ 6,744.73	\$		

PRINCIPAL		INCOME			Cr. Balance 6/30/62	Special Income Summary
Book Value 9/1/61	Book Value 6/30/62	Balance 9/1/61	Net Income	Special		
\$ 26,370.45	\$ 26,370.45	FUNDING FOR SPECIAL PURPOSES (CONT'D.)				
		Forward	\$ 5,929.16	\$ 2,146.86	\$ 1,331.29	\$ 6,744.73
5,120.30	5,120.30	Francis Stokes Fund	140.36	440.07	596.50 ⁷	-16.07
4,867.99	5,140.31	George Peirce Prize Fund		322.32	{ 50.00 ² 272.32 ²	
2,155.00	2,155.00	Lyman Beecher Hall Prize Fund	993.36	189.95	100.00 ²	1,083.31
1,397.75	1,397.75	Newton Prize Fund	49.90	252.70	{ 50.00 ² 250.00 ⁴	2.60
2,400.00	2,400.00	Edward B. Conklin Athletic Fund		167.60		
14,362.75	14,362.75	Edward Woolman Arboretum Fund	1.70	890.45	1,178.60 ⁷	-286.45
2,000.00	2,000.00	William Ellis Scull Prize Fund	1,453.70	171.90	50.00 ²	1,575.60
1,000.00	1,000.00	Paul D. I. Mater Fund		85.95	20.00 ²	
3,839.54	3,839.54	Strawbridge Observatory				
		Maintenance Fund	383.18	329.19	854.04 ⁸	-141.67
7,390.14	7,453.34	Jacob & Eugenic Bucky Mem'l Fdn.		488.20	{ 63.20 ³ 425.00 ⁹	
1,823.77	1,899.85	Mathematics Department Prize Fd.		128.08	{ 52.00 ² 76.08 ³	
2,491.50	2,491.50	William T. Elkinton Fund	1,228.76	214.02	266.42 ⁹	1,176.36
7,000.00	7,000.00	Tilney Memorial Fund	375.03	548.37		923.40
142.90	142.90	Class of 1902 Latin Prize Fund	42.99	12.04	10.00 ²	45.03
6,315.00	6,315.00	Class of 1898 Gift	892.99	458.98	600.00 ³	751.97
1,006.50	1,006.50	Edmund J. Lee Memorial Award Fd.	257.40	73.06	50.00 ²	280.46
		David R. Bowen Premedical Fund	424.31	45.55	{ 13.00 ⁴ 112.85 ⁴	344.01
902.55	902.55	Jonathan & Rachel Cope Evans Fd.	43.03	856.07	411.60 ³	1,229.44 ²
15,043.62	15,043.62	Edward Hawkins Memorial Fund	23.44	87.68	500.00 ¹	-28.93
1,457.44	1,457.44	William W. Baker Prize Fund	94.12	25.78	100.00 ¹⁰	413.00 ⁴
500.00	500.00	John G. Wallace Award Fund	21.50	8.88	25.00 ²	11.92
100.00	300.00	Christian Religion & Thought Fd.	60.28	167.60	22.44 ²	94.90
2,000.00	4,000.00	The Kurzman Prize Fund	80.84	103.14		231.84 ⁵
4,000.00	2,784.38	The Scholars in the Humanities Fd.		246.00		1,775.10 ⁷
2,784.38	36,900.00				125.00 ²	767.88
						854.04 ⁸
						804.27 ⁹
						58.98
						246.00
						100.00 ¹⁰
\$ 114,571.38	\$ 37,411.60	\$ 151,983.18	\$ 12,993.05	\$ 8,460.44	\$ 661.58	\$ 7,193.74
						\$ 13,598.17
						\$ 7,193.74

PRINCIPAL	
Book Value 9/1/61	Book Value 6/30/62
\$ 31,741.22	\$ 31,741.22
<div> <div> \$ 5,650.00 } 5,085.00 } 967.13 </div> <div> 10,735.00 26,705.42 65,292.69 2,526,902.15 </div> </div>	
25,738.29	40,935.45
65,292.69	2,526,902.15
2,485,966.70	2,526,902.15
\$2,608,738.90	\$2,637.58
	\$2,608,738.90

SUMMARY OF CONSOLIDATED AND NON CONSOLIDATED FUNDS

The Book Value increased \$306,691.74 as follows:

Donations for additions to Funds.....	\$ 71,205.17
Income transferred to principal.....	8,594.88
Net gains in securities sold or called:	
Consolidated	
Investments.....	185,931.24
Wm. Pyle Philips	
Investments.....	40,935.45
A. T. Murray	
Research	
Sch. Fund.....	25.00

NET INCREASES IN

CONS. AND
NON-CONS. FUNDS... \$306,691.74

NOTE: Key to figures

1. Scholarships
2. Prizes
3. Income to Principal

	Balance 9/1/61	Net Income	Expended	Special	Cr. Balance 6/30/62	Special Income Summary
John Farnum Memorial Fund.....		\$ 1,541.03	\$ 1,541.03			
Nathan Branson Hill Trust.....		0				
W. Percy Simpson Trust.....		1,613.50	1,613.50			
Henry C. Brown Trust.....		987.45	987.45			
		0				
Philip B. & Louise Spahr Deane Fd.		1,432.13		\$ { 942.13 ³		
Augustus Taber Murray Res. Sch....				{ 490.00 ¹¹		
Fund.....				2,047.50 ¹¹	\$ 562.08	
Walter R. Faries Scholarship Fund....	604.58	2,005.00				
Wm. Pyle Philips Fund.....		127,799.97				
General			63,895.49	{ 18,632.38 ⁴		
				{ 19,647.74 ¹²		
Special	55,412.08			{ 9,243.68 ¹³	71,792.76	
	\$56,016.66	\$135,379.08	\$ 68,037.47	\$ 51,003.43	\$72,354.84	

	Book Value 9/1/61	Increased	Decreased	Book Value 6/30/62	Net Income
Funds for General Purposes.....	\$ 6,735,218.10	\$ 5,387.29		\$ 6,740,605.39	\$415,432.62
Funds for T. Wistar Brown Graduate School.....	392,442.29			394,925.58	24,832.92
Funds for Morris Infirmary.....	14,712.94	2,483.29		14,712.94	1,221.36
Funds for Haverford Union.....	1,878.82			1,878.82	92.84
Funds for Scholarships.....	521,025.28	21,286.19		542,311.47	35,235.33
Funds for Library.....	340,893.32	1,554.55		342,447.87	24,988.93
Funds for Old Style Pensions.....	254,097.49		\$10,027.16	244,070.33	19,331.21
Funds for Special Purposes.....	114,571.58	37,411.60		151,983.18	8,460.44
Gains.....	1,618,823.07	185,931.24		1,804,754.31	
Total Consolidated Funds.....	9,993,662.89	254,054.16	10,027.16	10,237,689.89	529,595.65
Total Non Consolidated Funds.....	2,608,738.90	52,637.58		2,661,376.48	135,379.08
Total Funds.....	\$12,602,401.79	\$306,691.74	\$10,027.16	\$12,899,066.37	\$664,974.73

- | | | | | | |
|----|---------------------------|-----|----------------------|-----|---------------|
| 4. | Books & Library | 8. | Service & Repairs | 12. | Visitors |
| 5. | Lectures | 9. | Travel & Conferences | 13. | Miscellaneous |
| 6. | Religious Education Comm. | 10. | Physical Education | | |
| 7. | Plants & Services | 11. | Annuities | | |

CLASSIFICATION OF INVESTMENTS

June 30, 1962

	CONSOLIDATED ACCOUNT			NON-CONSOLIDATED ACCOUNT		
	Book Value	Total	Market Value	Book Value	Total	Market Value
BONDS						
U. S. Government.....	\$ 146,118.72		\$ 146,524	\$ 0		\$ 0
Municipal.....	0		0	40,300.00		42,800
Industrial.....	1,084,212.60		1,091,064	304,713.80		302,687
Public Utility.....	958,132.85		960,193	166,385.75		171,780
Railroad.....	520,598.26		450,388	234,157.05		197,718
Foreign.....	404,937.50	\$ 3,113,999.93	405,250	132,750.00	\$ 878,306.60	137,250
						\$ 852,235
PREFERRED STOCK						
Industrial.....	841,240.82		767,049	31,370.44		30,713
Public Utility.....	359,955.08		339,628	0		0
Railroad.....	242,150.87	1,443,346.77	234,963	15,467.75	46,838.19	18,750
						49,463
COMMON STOCK						
Banks & Insurance.....	864,776.17		1,669,944	142,266.11		230,557
Industrial.....	2,645,349.73		4,371,639	905,010.85		1,487,747
Public Utility.....	1,369,714.54		2,597,739	580,043.81		1,180,470
Railroad.....	288,823.04		319,488	32,709.14		23,799
Miscellaneous.....	0	5,168,663.48	0	19,219.83	1,679,249.74	31,500
						2,954,073
MORTGAGES		111,401.35				
COLLEGE REAL ESTATE		711,825.46				
MISCELLANEOUS		50,398.65				
CASH	ever invested	361,945.75	361,946		56,981.95	56,982
		<u>\$10,237,689.89</u>	<u>\$13,865,548</u>		<u>\$2,661,376.48</u>	<u>\$3,912,753</u>

NOTE: There is also held \$56,614.06 Banks & Insurance stock not included in the above figures, being holdings in C. Wharton Stork Art Gift Fund which is not included in the Funds. This Fund has an overdraft in principal cash of \$33,414.06.

DONATIONS FOR ADDITIONS TO FUNDS

<i>Archibald MacIntosh Endowment Fund</i>		
Gifts of: Gilbert H. Marquardt	\$ 500.00	
Anonymous	<u>1,000.00</u>	\$ 1,500.00
<i>Louis Jaquette Palmer Scholarship Fund</i>		
Gifts of: Russel G. Allen	200.00	
Cabot Foundation (matching Russel G. Allen Gift)	200.00	
Triangle Society	<u>1,000.00</u>	1,400.00
<i>1890 Memorial Scholarship Fund</i>		
Gift of Andrew L. Lewis, Jr.		100.00
<i>Elihu Grant Memorial Scholarship Fund</i>		
Proceeds — Beth Shemish		1,100.00
<i>Summerfield Foundation Scholarship Fund</i>		
Additional Gift		1,000.00
<i>Clinton P. Knight, Jr. New England Scholarship Fund</i>		
Additional gifts through Haverford College Development Program ..		7,034.02
<i>The F of x Scholarship Fund</i>		
Legacy of Legh Wilber Reid		10,000.00
<i>Class of 1909 R. M. Jones Memorial Scholarship Fund</i>		
Gift of Paul Van Reed Miller		125.00
<i>Sara & Francis Pawling Library Fund</i>		
Gifts of: Mrs. Mary Louise Jenkins	15.00	
Beatrice Tomaselli	5.00	
Ruth C. La Barrer	5.00	
Emma Weston Forbes (Stephen)	25.00	
Proceeds—Group Life Ins. (Allison B. Wesley)	1,012.50	
Proceeds—Accrued annuity	<u>148.65</u>	1,211.15
<i>John G. Wallace Award Fund</i>		
Additional Gift		100.00
<i>The Scholars in The Humanities Fund</i>		
Anonymous Gift		<u>36,900.00</u>
	TOTAL	<u>\$60,470.17</u>
<i>Non Consolidated Funds</i>		
Philip B. & Louise Spahr Deane Fund		<u>\$10,735.00</u>

THE DEVELOPMENT PROGRAM

ALTHOUGH the public information and other functions of the Development Office were not neglected in the past fiscal year, its major concentration in this period has been on Haverford's Development Program.

By June 30, 1962 this campaign had already brought in more subscriptions from more people than any in Haverford's history. And the total continues to grow. On that date, the total applicable to the campaign objectives exceeded \$1,442,000. A major portion of this, \$1,269,000, was applicable to the \$1,600,000 goal for individual gifts. We are now engaged in simultaneous efforts to meet this objective and to attain our \$3.6 million over-all goal.

We are grateful for the support which we have received from E. I. duPont de Nemours and Co., Union Carbide and Carbon Corp., Aluminum Company of America, Philadelphia Quartz Co., and other corporations. We shall continue to present the record of Haverford's accomplishments and its future plans to business and foundation sources, and are confident that many of them will wish to take a generous part in our Development Program.

As to individual gifts, it is pleasant to report that 59% of Haverford's Alumni have supported the campaign. Although we expect that additional graduates will contribute to increase this participation, the experience of other colleges and universities indicates that we are approaching the maximum rate.

Our campaign organization is now actively working to bring in the \$331,000 which will bring us to our \$1.6 million goal for gifts from individuals. It is evident that, to bring in this last quarter of our objective, we will need both devoted effort and further generous response from Alumni and friends who are already listed among our supporters.

As this is written, in the first stage of this final effort, we have impressive evidence that these friends share in full measure the concern for quality which is the basic theme of the campaign and of the College. During the past ten days, substantially all of our Board members have made a decision as to the amount of their additional gift. The average of these increases exceeds 40% and they bring the total subscribed by members of the Board to more than \$420,000. We are confident that these examples of devotion to Haverford's welfare will be echoed by our other Alumni and friends.

I cannot close this brief report without paying tribute to the volunteers who have carried such a heavy load in this campaign and who will be responsible for its success. The work done by Jonathan Rhoads '28 and Richard Heilman '25 as co-chairmen, Benjamin Loewenstein '34 as head of the general alumni teams, and their many, many associates, has been of inestimable value to their College. We are deeply grateful to them.

I personally want to acknowledge the invaluable services of Charles Perry '36, Associate Director for Development, and of our splendid staff. We are indebted to the whole College community for maintaining the high standards which are central to the Haverford tradition, which bring pleasure and meaning to our work and which, in a larger sense, make it possible.

WALTER C. BAKER
Vice-President for development

SUBSCRIPTIONS TO THE HAVERFORD COLLEGE DEVELOPMENT PROGRAM

September 1, 1960—June 30, 1962

Alumni Subscribers

1886

In Memory of
Israel Morris, Jr., and
William P. Morris

1889

In Memory of
Daniel C. Lewis

1892

Walter M. Hart
Arthur Hoopes
Maxfield Parrish
Stanley R. Yarnall

1893

Harry O. Bechtel
(*Deceased*)
Barton Sensenig

1894

Henry S. Conard
Clifford B. Farr
In Memory of
Francis J. Stokes

1895

William W. Supplee

1896

In Memory of
George R. Allen
John A. Lester

1897

Wager Fisher
Charles H. Howson
Edward Thomas

1898

Vincent Gilpin (*Deceased*)
In Memory of
Vincent Gilpin
In Memory of
Morris M. Lee
In Memory of
Alfred G. Scattergood
Frederick Stadelman
Francis R. Strawbridge

1899

William A. Battey
(*Deceased*)
Edward H. Lycett, Jr.
Louis R. Wilson
**Total for classes
of 1892-1899 \$12,698.61**

1900

Charles J. Allen
Francis R. Cope, Jr.
(*Deceased*)
Henry S. Drinker
Frank M. Eshleman
Frederic C. Sharpless
Abram G. Tatnall
(*Deceased*)
Edward B. Taylor, Jr.
\$3,957.50

1901

Chas. F. Allen
Ellis Y. Brown, Jr.
(*Deceased*)
William E. Cadbury
A. Lovett Dewees
J. Leiper Winslow
\$690.00

1902

C. Reed Cary
William V. Dennis
Edward W. Evans
Richard M. Gummere
S. Percy Jones
William C. Longstreth
Dr. & Mrs. Percival
Nicholson (*Deceased*)
Robert J. Ross
John L. Stone
Charles Wharton Stork
E. Earl Trout
\$4,962.02

1903

Henry J. Cadbury
Hervey M. Hoskins
(*Deceased*)
In Memory of
Willard E. Swift
\$70.00

1904

Howard H. Brinton
 John W. Charles
 Arthur Crowell
 Chester R. Haig
 George K. Helbert
 William M. C. Kimber
 Bernard Lester
 C. Christopher Morris
 Harold H. Morris
 C. Raymond Owen
 Harold M. Schabacker
 James M. Stokes
 John R. Thomas
 H. Norman Thorn
 E. Porter West (*Deceased*)
 Samuel C. Withers

\$8,290.00**1905**

Thomas M. Bales
 Charles S. Bushnell
 Henry G. Cox
 Thomas S. Downing
 Arthur H. Hopkins
 Paul Jones
 Glyndon Priestman
 William J. Reagan
 Elias Ritts
 Sigmund Spaeth
 Herman K. Stein
 Chester J. Teller
 (*Deceased*)

Howard P. Thomas
 Edwards F. Winslow

\$34,177.50**1906**

Walter Carson
 Thomas Crowell
 Gordon H. Graves
 Jackson Maloney
 Francis B. Morris
 Albert K. Smiley
 John A. Stratton
 Joseph J. Tunney

\$1,810.00**1907**

Richard Cadbury
 Walter L. Croll
 Harold Evans
 Francis D. Godley
 Samuel J. Gummere
 (*Deceased*)
 Wilbur H. Haines
 Lee E. Hood (*Deceased*)
 Ernest F. Jones

1907 (Cont.)

James P. Magill
 Alfred B. Morton
 Jose Padin
 C. Clayton Terrell
 In Memory of
 Alexander N. Warner
 W. Butler Windle

\$39,252.00**1908**

Carroll T. Brown
 Dudley DeW. Carroll
 J. Browning Clement, Jr.
 Thomas C. Desmond
 Edward A. Edwards
 J. Passmore Elkinton
 Thomas R. Hill
 W. Wesley Kurtz
 M. Albert Linton
 T. Morris Longstreth
 W. Haviland Morris
 (*Deceased*)
 Loren C. Petry
 Winthrop Sargent, Jr.
 Walter R. Shoemaker
 Wilson Sidwell
 Walter W. Whitson
 Raymond C. Woodard

\$8,265.00**1909**

Joseph Cope
 Percival B. Fay
 William S. Febiger
 Allan J. Hill
 Sidney Loewenstein
 Howard M. Lutz
 Charles E. Marsh
 Charles G. Martinson
 Paul Van Reed Miller
 Joseph W. Pennypacker
 Frank McC. Ramsey
 J. Warrington Stokes
 Robert L. M. Underhill
 William W. Warner
 Matthew H. Watson

\$5,170.00**1910**

E. Page Allinson
 Earlham Bryant
 Earl S. Cadbury
 H. Ernest Crow
 E. Nelson Edwards
 Harold A. Furness
 Carroll A. Haines

1910 (Cont.)

Harrison S. Hires
(Deceased)
 John D. Kenderdine
 George A. Kerbaugh
 Charles M. Leininger
 Henry C. Lewis
 Clayton W. Mayers
 Walter Palmer
 Charles S. Ristine
 Walter D. Shultz
(Deceased)
 Willard P. Tomlinson
(Deceased)
 William L. G. Williams
 E. Roy Zieber

\$31,167.33**1911**

James Ashbrook
 Henry S. Bernard
 Daniel B. Boyer
 John S. Bradway
 Philip B. Deane
 John S. Downing
 Benjamin Farquhar
 In Memory of
 Henry Ferris, Jr.
 William D. Hartshorne, Jr.
 Richard J. M. Hobbs
 L. Arnold Post
 Joseph H. Price
 D. Duer Reynolds
 Victor Schoepperle
 Lucius R. Shero
 Gibson Smith
 Howard G. Taylor, Jr.
 Walter Tebbetts
 Charles Wadsworth
 Caleb Winslow
 Harold Worthington
 Alan S. Young
 Wilmer J. Young

\$37,217.81**1912**

Joshua L. Bailly
 Stacey K. Beebe
 Albertus L. Biedenbach
 Edward G. Brinton
 J. Arthur Brownlee
 In Memory of
 Clyde G. Durgin
 Douglas P. Falconer
 Leslie W. Ferris
 Hans Froelicher

1912 (Cont.)

Ralph Garner
 Herbert Howard
 C. Merle Hunt
 Lance B. Latham
 Herbert M. Lowry
 Robert E. Miller
 Charles T. Moon
 Sydney S. Morris
 J. Hollowell Parker
 Irvin C. Poley
 Kenneth A. Rhoad
 Leonard C. Ritts
 In Memory of
 William H. Roberts
 Thomas E. Shipley
 Francis G. Smiley
(Deceased)
 Lloyd M. Smith
 Walter H. Steere
 Samuel B. Sturgis
 Henry M. Thomas, Jr.
 Edward Wallerstein
 Charles H. Wetzel

\$25,767.00***1913**

Paul H. Brown
 William S. Crowder
 Frederick A. Curtis
 Francis H. Diament
 Arthur H. Goddard
 Norris F. Hall *(Deceased)*
 William Y. Hare
(Deceased)
 Charles E. Hires, Jr.
 Elisha T. Kirk
 Stephen W. Meader
 Herbert Nicholson
 Samuel C. Pickett
 Alfred C. Redfield
 L. Ralston Thomas
 John V. Van Sickle
 William Webb
 N. McDonald Wilder
 George L. Winslow

\$6,177.25**1914**

H. Ernest Bell
 Jules S. Bentley
 Walter G. Bowerman
 Carroll D. Champlin
 Leonard B. L. DeSabran
 George V. Downing
(Deceased)

* \$6.140 was contributed to the 50th Reunion gift.

1914 (Cont.)

C. Willis Edgerton
 Alfred W. Elkinton
 Thomas W. Elkinton
 Joseph C. Ferguson
 Lewis J. Finestone
 Edward M. Jones
 Harold M. Lane
 Robert A. Locke
 Harold S. Miller
 Douglas L. Parker
 Baxter K. Richardson
 Herbert W. Seckel
 Robert C. Smith
 Francis C. Stokes
(Deceased)
 S. Emlen Stokes
 John A. Stout
 Leonard V. H. Thomas
 Thomas Tomlinson
 Charles K. Trueblood
 Douglas Waples
 Charles R. Williams
\$264,128.65

1915

Percival R. Allen
 Edgar M. Bowman
 G. Cheston Carey
 Nelson B. Coleman
 George Hallett, Jr.
 Harold W. Helveston
 Thomas Hoopes, Jr.
 Hubert A. Howson
 Joseph McNeill
 Felix M. Morley
 W. Elwood Vail
 Donald B. Van Hollen
 Ernest N. Votaw
\$3,705.00

1916

Frederick C. Buffum, Jr.
 Frank W. Cary *(Deceased)*
 In Memory of
 Frank W. Cary
 J. Arthur Cooper
 Bolton L. Corson
 George A. Dunlap
 James S. Ellison *(Deceased)*
 Albert G. Garrigues
 William I. Hannum
 Perry A. Hunter
 H. Alden Johnson
 Raymond C. Kendig
 C. Prescott Knight, Jr.
 John Kuhns
 Philip L. Leidy

1916 (Cont.)

John G. Love, Jr.
 J. Sidney Marine
 Edward F. Lukens
 William L. Martwick
 Edward R. Moon
 Charles H. Oberholtzer
 Joseph Stokes, Jr.
\$12,657.00

1917

Ernest L. Brown
 J. Warren Burket
 J. Howard Buzby
 William H. Chamberlin
 Donald Chandler
 Loring Dam
 Jesse G. Forsythe
 Robert Gibson
 Joseph Warren Greene, Jr.
 Robert B. Haines
 Albert W. Hall
 Weston Howland
 M. Alexander Laverty
 W. Clark Little
 Franklin O. Marshall
 Hugh E. McKinstry
(Deceased)
 Arthur H. Napier
 Edmund T. Price
 Carl M. Sangree
 Wendell D. Schoch
 John W. Spaeth, Jr.
 Arthur E. Spellissy
 J. Clayton Strawbridge
 Edward M. Weston
 Harold Q. York
\$12,044.38

1918

John W. Alexander
 Harrison H. Arnold
 Robert Barrie
 Bennett S. Cooper
 J. Marshall Crosman
 Stephen Curtis
 Frank Deacon
 Alfred H. Dewees
 Neil Gilmour
 Robert B. Greer
 Henry M. Hallett, II
 William H. Harding
 Joseph M. Hayman, Jr.
 John A. Hisey
 Malcolm D. Kerbaugh
 Henry W. Koons
 Louis C. O. Lussan
 William Mussetter

1918 (Cont.)

Herbert J. Painter
 Edward A. G. Porter
 Harry P. Schenck
 Joseph W. Sharp
 Morris S. Shipley
 Oliver P. Tatum
 John W. Thacher
 Percy S. Thornton
 Albert H. Tomlinson
 Alfred J. Townsend

\$4,905.00**1919**

Sir John Barlow
 Hudson Chapman
 Thomas P. Dunn
 Francis Goodhue, III
 William F. Hastings
 John S. Haynes
 George H. Hubler
 Thomas McConnell, III
 Ralph F. S. Moock
 A. Douglas Oliver
 J. Evan Philips
 Walter P. Shipley, Jr.
 Frederick Strawbridge, Jr.
 H. Dana Taylor (*Deceased*)
 Cleaver S. Thomas

\$3,156.00**1920**

Fruxton B. Brodhead
 Frank L. Campbell
 Benjamin Collins
 Lucius W. Elder, Jr.
 J. Russel Fitts
 Frank T. Gucker, Jr.
 Pierson Harris
 Milton A. Kamsler
 Thomas H. Kearney
 A. Douglas Knowlton
 Thomas E. Morris
 Robert L. Petry
 Francis S. Silver
 Edward L. Smith, Jr.
 James E. Sutton
 Henry R. Tatnall
 Granville Toogood
 John S. Williams
 Richard R. Wood
 Granville Worrell, II

\$8,748.51**1921**

Robert Atkinson
 Jervis J. Babb
 Thomas B. Barlow
 Elliot W. Brown

1921 (Cont.)

Melvin A. Cawl
 Peter Donchian
 Cornell M. Dowlin
 S. Newcomb Ewan, Jr.
 George J. Gebauer
 Raymond C. Hacker
 Edward C. Haines
 Alan W. Hastings
 Eugene B. Heilman
 John R. Hoopes
 William T. Jebb
 J. Barclay Jones
 John H. Klaren
 Henry W. Kumm
 Julian S. Long
 John MacAdam
 Archibald MacIntosh
 Warren S. McCulloch
 Morrison C. McKinley
 John D. Miller
 Raymond T. Ohl
 A. Arthur Powell
 Hubert T. Richardson
 M. Huyett Sangree
 C. Wilbur Ufford
 Benjamin B. Weatherby, II
 Robert N. Wood

\$23,345.38**1922**

Noel S. Arrowsmith
 John B. Barker
 Andrew Brown
 John F. Gummere
 George A. Hilleman
 Richard W. Janney
 Ralph A. Klemm
 Robert R. Matzke
 Delaplaine McDaniel
 Frederick S. Miller
 (*Deceased*)
 Elliston P. Morris
 Chauncey G. Paxson
 Foster N. Perry
 Harry W. Pfund
 William L. Rhoads, Jr.
 Richard M. Sutton
 Edward A. Taylor
 Kenneth B. Walton
 Malcolm R. Wise
 J. Colvin Wright
 Edwin Zerrer

\$4,740.50**1923**

Russel G. Allen
 W. Warder Bacon, Jr.

1923 (Cont.)

John C. Borton
 H. Tatnall Brown, Jr.
 Joseph Z. C. Chapman
 Frank P. Flint
 Frank S. Flowers
 Gilbert C. Fry (*Deceased*)
 G. Randle Grimes
 E. Kenneth Haviland
 C. Dixon Heyer
 Rees S. Himes
 Garrett S. Hoag
 George C. Huffman
 William C. Hunsicker, Jr.
 Marcus D. Hutkin
 Wilmot R. Jones
 S. Brooks Knowlton
 Robert W. Leeds
 Andrew L. Lewis
 Thomas M. Logan
 Thomas Parke
 Dudley McC. Pruitt
 Robert Schultz
 Benjamin Shoemaker, III
 John B. Stevenson
 Gordon W. Strawbridge
 Alfred L. Test
 Robert L. Waln
 Charles Warner, Jr.
 Farnham Warriner
 Nelson A. White
 Harry L. Wilbur

\$15,802.06**1924**

Charles F. Bader, Jr.
 Courtland B. Brinton
 Hugh P. Brinton
 J. Stanton Carson
 Howard Comfort
 In Memory of
 Thomas S. Ellis
 Charles H. Frazier
 Harold D. Greenwell
 Gaylord P. Harnwell
 Paul R. Haviland
 John F. Headly
 Wesley M. Heilman
 Howard J. Hogenauer
 Morris W. Mead, Jr.
 Frank F. Muller
 Arthur Mullin
 Charles E. Nash
 Edward B. Patterson
 Philip G. Rhoads
 John F. Rich
 En Shui Tai

1924 (Cont.)

Lawrence N. Taylor
 Gordon M. Turner
 W. Wyclif Walton
 W. Nelson West, III
 Donald E. Wilbur
\$25,816.50

1925

Conrad B. Acton
 Eric G. Ball
 Robert C. Bates
 Wray D. Bentley
 Geoffroy Billo
 Leigh E. Chadwick
 Douglass W. Eiseman
 John A. Eiseman
 Edward L. Gordy
 C. William Haines
 In Memory of
 J. S. Curtis Harvey, Jr.
 H. Richard Heilman
 William E. Hinrichs
 Irving Hollingshead
 Henry F. House
 Phillips Johnson
 Ames Johnston
 Karl G. Kumm
 Hugh Montgomery
 Warren W. Newman
 Jesse T. Nicholson
 Chalmers V. A. Pittman
 Owen B. Rhoads
 William D. Rogers
 Albert E. Savage
 John L. Schulze, Jr.
 C. Coleman Sellers
 John A. Silver
 Francis M. Stifler
 Henry H. Strong
 Harold B. Taylor
 Benjamin B. Warfield
 Stanley E. Willey
 Austin Wright
 Harman A. Yerkes

\$14,950.38**1926**

Schuyler F. Baldwin
 Hugh Borton
 Alfred E. Buck
 Francis F. Campbell
 Alexander R. Carman, Jr.
 Franklin O. Curtis
 Henry C. Evans
 Allan Gilmour
 Charles H. Greene
 Gerald C. Gross

1926 (Cont.)

Murray C. Haines
 Robert L. Haines
 Edmund P. Hannum
 Siddons Harper, Jr.
 Dalzell F. Hartman
 Robert L. Hatcher
 Harris G. Haviland
 Wayne G. Jackson
 J. Dean Joly
 Victor A. Lamberti
 Winthrop M. Leeds
 Daniel C. Lewis, Jr.
 Benjamin H. Lowry
 J. Howard Marshall
 Willard E. Mead
 Merle M. Miller
 Fred Rodell
 Paul L. Sassaman
 Charles E. Sumwalt
 Charles R. Tatnall
 Joseph A. Vansant

\$24,378.81**1927**

Samuel A. Armstrong
 James W. Baker
 Harold E. Bates
 M. Ward Bayles
 John H. Biddle
 Charles A. Clement
 Herman E. Compter
 Samuel Cook
 Daniel M. Cox
 Leopold S. David
 Natt-M. Emery, Jr.
 Allan B. Fay
 John E. Forsythe
 Albert V. Fowler
 J. Richard Gott, Jr.
 William O. Grover
 Gordon B. Halstead
 John L. Heller
 John H. Hoag
 Alexander R. Middleton
 I. Wilmer Miller
 Paul W. Ohl
 Allen G. Powell
 George H. Renninger
 Franklin Sanders
 S. Stansfeld Sargent
 William W. Saunders
 Watson Scarborough
 Arthur W. Silver
 Charles R. Thompson
 W. Burr Totten

\$5,902.50**1928**

James W. Alcorn
 John C. Beatty, Jr.
 Carl F. Berlinger
 William R. Bready
 Richard C. Bull
 Frederick M. Burgess
 Leslie A. Cretty
 Royal S. Davis
 John T. Evans
 C. Keely Fox
 Walter J. Gruber
 Arthur B. Hallock, Jr.
 Theodore B. Hetzel
 Richard L. Hillier
 Allen F. Horton
 J. Quincy Hunsicker, III
 J. McLain King
 Richard T. Lane
 John S. McConaghy
 Michael McEntee
 Oliver W. Melchior
 James E. Mitchell
 S. Burkhart Morrison
 Henry S. Murphey
 Alexander L. Nichols
 Eric H. Renwick
 Jonathan E. Rhoads
 Ingram H. Richardson
 Louis F. Richter
 Charles A. Robinson
 Osman J. Seeds
 Franklin W. Smith
 Ellsworth B. Stevens
 J. Tyson Stokes
 Charles M. Tatum
 Herbert F. Taylor
 Allen C. Thomas, Jr.
 Thomas S. Whiting
 Theodore Whittelsey, Jr.
 Richard Wistar
 John W. Woll
 Leonard E. Yoder

\$41,235.96**1929**

Theodore E. Baker
 John A. Bishop
 W. Wendell Blancke
 Frank K. Briggs
 Samuel T. Brinton
 Roger C. Brown
 Henry J. Chapin
 Charles H. Collison
 John R. Cooper
 Carroll L. Corson
 Robert M. Cunningham

1929 (Cont.)

F. Curtis Dohan
 James G. Downward
 Herbert K. Ensworth
 Nathan T. Folwell, Jr.
 John P. Fox
 George S. Garrett
 Thomas C. Gawthrop, II
 Charles M. Hamilton
 Arthur S. Hawthorn
 Everett H. Hemphill
 Halsey M. Hicks
 Francis C. Jameson
 George W. Johnson
 Kenneth E. Kingham
 William S. Lane
 Davis D. Lewis
 Joseph E. MacNamee
 James S. Maier
 Alfred Mellor
 J. Hamor Michener
 Gerald F. Rorer
 J. Clifford Scott
 Francis W. Sharpless
 Walter Sondheim, Jr.
 James M. Standring, Jr.
 Robert C. Sullivan
 Daniel D. Test, Jr.
 Harold L. Wilt
 F. Howell Wright
\$20,425.13

1930

Bradford S. Abernathy
 John L. Blackman, Jr.
 B. Franklin Blair
 Richardson Blair
 Roger L. Bloom
 Arthur H. Brinton
 James Brown, IV
 T. Ward Bruegel
 Donald R. Buxton
 Lincoln C. Cocheu
 Harlan E. Crowell
 Frederic A. Egmore
 Theodore Evans
 Willem Ezerman
 J. Thorpe Feidt
 William D. Frazier
 W. Clark Hanna
 Frank W. Lindsay
 Joseph W. Martin
 William M. Masland
 Irvin W. McConnell
 Charles W. Miller, Jr.
 Joseph L. Miller

1930 (Cont.)

Brewster H. Morris
 J. Howard Morris, Jr.
 Theodore H. Morris
 Martin I. Norr
 Robert M. Olton
 William G. Robelen, III
 Edward Rosewater
 Harlow B. Rowell
 Newman S. Shirk
 Daniel Smiley
 David K. Spelt
 John F. Stone
 Frederick W. Swan
 George Vaux
 Thomas Wistar, Jr.
 Thomas Wriggins, Jr.
\$13,358.13

1931

Marion A. Arthur
 Henry G. Barnhurst
 John W. Blyth
 Richard D. Browne
 J. Wendell Burger
 Thos. E. Burns, Jr.
 J. George Butler
 William E. Caddbury, Jr.
 S. Hall Conn
 Alfred R. Crawford
 George B. Edgar
 Robert F. Edgar
 Kenneth H. Egolf
 John T. Emlen, Jr.
 F. W. Elliott Farr
 Robert L. Farr
 Robert W. Gabriel
 Lewis H. Gage
 Donald L. Gibson
 John T. Golding
 John H. Gray, Jr.
 John D. Gresimer
 Thomas B. Harvey
 James M. Houston
 In Memory of
 Robert B. Jarratt
 M. Jastrow Levin
 Wm. Morris Maier
 Adrian S. Mann
 Lauman Martin
 Richard L. Masland
 Raymond E. Maxwell
 Arthur J. Mekeel
 Frederick W. G. Peck
 Charles S. Pennypacker
 Herbert W. Reisner
 Fred M. Richardson

1931 (Cont.)

Ira L. Schamberg
 Ernest A. Schilpp
 Harris P. Shane
 Phillip B. Shaw
 E. Rodman Shippen, Jr.
 Edwin A. Speakman
 Frank N. Speller, Jr.
 Walter M. Teller
 James E. Walmsley
 Nathaniel Weyl
 J. Borton Wills
 John H. Wills
 Evan M. Wilson

\$15,636.00**1932**

Carl B. Allendoerfer
 G. Richard Bacon
 Howland H. Bailey
 Walter C. Baker
 William F. Brinton
 Joseph M. Cadbury
 John W. Conner, Jr.
 Gilbert David
 Wallace De Laguna
 Walter I. Dothard, Jr.
 J. Russell Elkinton
 Harry Fields
 Gifford P. Foley
 William T. R. Fox
 Herbert S. Gaskill
 George Gerenbeck, Jr.
 F. Barton Gummere, III
 C. Robert Haines
 Joseph N. Hartel
 Sydney A. Hunt
 H. Gifford Irion
 Harry G. M. Jopson
 Lewis L. Kohn
 Albert H. Kretschmer, Jr.
 Ellis C. Osgood
 Barrett Parker
 William W. Pusey, III
 Joseph E. Rhoads, Jr.
 Arthur S. Roberts
 Frederick G. Rudge
 Harold J. Schramm
 John W. Settle, Jr.
 William V. Sipple, Jr.
 A. Keith Smiley, Jr.
 Franklin J. Smith
 Dana M. Street
 Charles S. Strickler
 A. Craig Succop
 John R. Watkins
 Rudolf M. Wertime

1932 (Cont.)

William D. Wray
 John A. Zapp, Jr.

\$24,967.00**1933**

James Andrews, Jr.
 E. Theodore Bachmann
 Clarence P. Baker
 Edmund A. Carr
 Herbert T. Clough, Jr.
 Horace K. Dugdale, Jr.
 Franklin K. Fite
 Charles E. Frank
 Frederick L. Fuges
 DuRelle Gage, Jr.
 Stephen T. Gulbrandsen
 William L. F. Hardham
 Patrick H. Hodgkin
 Charles S. Jacobs
 Franklin P. Jones
 Bernard V. Lentz
 John W. Masland, Jr.
 John F. McMahon
 Edward A. Moos
 H. Pierce Pelouze, Jr.
 Hugh B. Pickard
 William H. Russell
 John R. Sargent
 Henry W. Scarborough, Jr.
 Alfred G. Scattergood, II
 Henry Scattergood
 Wilbert B. Smith, Jr.
 James N. Stanton, Jr.
 W. Hooton Stokes
 Phillips S. Trenbath
 F. A. Vandenberg, Jr.
 Henry J. Vaux
 Thomas R. White, Jr.
 David L. Wilson

\$13,117.13**1934**

Robert C. Atmore
 Lewis H. Bowen
 Thomas S. Brown
 Fritz K. Downey
 John L. Dusseau
 Louis W. Flaccus, Jr.
 Grant V. Frazer
 J. Morton Fultz, Jr.
 Leonard L. Greif, Jr.
 John L. Gross, Jr.
 J. Ogden Hancock
 Edward M. Hendrickson
 Eugene F. Hogenauer
 Ray B. Houston
 R. Bruce Jones
 J. Douglas Lockard

1934 (Cont.)

Benjamin S. Loewenstein
 David G. Loomis
 William F. Maxfield
 Richard R. Pleasants
 Asa W. Potts
 Philip B. Richardson
 A. Thomas Richie
 Henry G. Russell
 Roger Scattergood
 William W. Smith
 Matt W. Stanley
 Francis W. Stork
 Edwin C. White
 John C. Wilson
 Willard M. Wright, Jr.
\$12,912.01

1935

H. Hayes Aikens, Jr.
 William L. Azpell, Jr.
 Howard S. Bevan, Jr.
 Clifton M. Bockstoe
 William R. Bowden
 Paul W. Brown, Jr.
 Frank B. Burnside
 William Butler, III
 B. Bartram Cadbury
 John B. Christopher
 John C. Duffield
 John H. Elliott
 Woodruff J. Emlen
 Joseph Haywood
 Richard W. Hires
 Sidney Hollander, Jr.
 James B. Kase
 E. Charles Kunkle
 E. Wayne Marshall
 Edward H. McGinley
 W. Harrison Mechling
 Allen R. Memhard, Jr.
 Harry C. Meserve
 V. Putnam Morgan
 Samuel Potter, Jr.
 John B. Rhoads
 Russell W. Richie
 Graham Rohrer
 Charles F. G. Smith
 J. Winslow Smith
 Martin P. Snyder
 Philip P. Steptoe, Jr.
 F. Joseph Stokes, Jr.
 Richard M. Suffern
 Robert P. Wills
 Alexander C. Wood, III
\$16,777.25

1936

Joseph Barton, Jr.
 Richard L. Barrows, Jr.
 Thomas R. Bevan
 George B. Bookman
 Robert Braucher
 Donald W. Brous
 Jonathan A. Brown
 Thomas D. Brown
 William A. Crawford
 Ellis I. Curley
 Arthur S. Dulaney
 David C. Elkinton
 Francis C. Evans
 Grant C. Fraser
 William R. Fry, Jr.
 Robert S. Gawthrop
 John N. Goodridge
 Henry S. Huntington
 Robert M. Hutchinson
 Arthur R. Kane, Jr.
 Samuel Kind
 Howard T. Lodge, Jr.
 William H. Loesche, Jr.
 William A. Macan
 David K. Maxfield
 David P. McCune, Jr.
 Samuel S. McNeary
 J. Don Miller, Jr.
 Park Hays Miller, Jr.
 W. Brooke Morgan, Jr.
 C. Christopher Morris, II
 Ralph C. Most
 John L. Parker
 Henry F. Parry
 Harry T. Paxton
 James W. Pearce, Jr.
 James G. Peirce
 Charles Perry
 Joseph D. Purvis, Jr.
 T. Kite Sharpless
 William E. Sheppard
 James O. Sloss
 Allen W. Stokes
 Edmund M. Taylor
 Joseph H. Taylor
 William F. Tiernan, Jr.
 Henry L. Tomkinson
 Hubert M. Vining
 Robert B. Wolf
\$25,972.84
1937
 Charles J. Allen, Jr.
 William W. Allen, III
 Howard A. Andrews
 Kenneth Beck

1937 (Cont.)

William H. Bond
 Thomas K. Brown, III
 John A. Cantrell
 James G. Carr, Jr.
 Joseph R. Carson
 Stephen G. Cary
 Richard Cooper
 James A. Dailey
 William H. Daudt
 Henry S. Drinker, Jr.
 Thomas E. Edwards
 Hans B. Engelmann
 Bruce H. French
 Daniel C. Frysinger
 Allan W. Gilmour, Jr.
 Roger L. Greif
 Henry C. Gulbrandsen
 Marshall C. Guthrie, Jr.
 Roy C. Haberkern, Jr.
 Bernard M. Hollander
 Charles E. Holzer, Jr.
 James D. Hoover
 Andrew D. Hunt, Jr.
 Bryden B. Hyde
 Bun-ichi Kagami
 W. Lawrence Kimber
 Robert H. Kriebble
 Harry H. Kruener
 Paul G. Kuntz
 John J. Lawser
 Robert W. Leibold
 John A. Lester, Jr.
 M. Albert Linton, Jr.
 James H. Lockwood
 John B. Lukens
 Richard B. McLaughlin
 Ralph H. McMahon
 William N. Nelson
 William A. Polster
 S. Sturgis Poorman
 William R. Reynolds
 Joseph T. Rivers, Jr.
 Peter P. Rodman
 Edward H. Rosenberry
 Edward B. Scull
 Henri C. Seibert
 Thomas L. Shannon, Jr.
 Richard B. Shoemaker
 Caleb A. Smith
 Archibald Stark
 Melvin A. Weightman
 Philip M. Whitman
 Stephen V. Wilking
 Arthur N. Wrigley

\$26,602.75***1938**

Robert L. Aucott
 Louis W. Bailey
 Thomas A. Benham
 Robert M. Bird, Jr.
 Douglas H. Campbell
 John T. Carson, Jr.
 William W. Chambers
 Donald S. Childs, Jr.
 William H. Clark, Jr.
 Henry B. Cox
 Herbert T. Darlington, Jr.
 Valery S. DeBeausset
 Aubrey C. Dickson, Jr.
 William Duff
 Charles R. Ebersol
 John A. Evert
 Roderick Firth
 James M. George
 Robert P. Gilbert
 Jonathan Goldmark
 Wendell T. Kershner
 William S. Kinney, Jr.
 Louis B. Kohn, II
 William B. Kriebel
 Amos P. Leib
 Charles H. Ligon
 William H. Luden, Jr.
 George B. Mathues
 Malcolm D. McFarland
 F. Huston McIlvain
 Elliott H. Morse
 Leonard F. Norsworthy
 Dikran S. Pakradooni
 George Peirce
 Frank M. Ramsey, Jr.
 Clayton E. Ranck
 Lindley B. Reagan
 James L. Rich
 Tillman K. Saylor, Jr.
 Leslie B. Schramm
 Philip R. Shank
 Clyde H. Slease
 William B. Sluss
 Charles F. Sponsler, Jr.
 Jonathan M. Steere, Jr.
 Thomas C. Tatman
 Hubert R. Taylor
 Irving Telling
 Robert J. Thompson, Jr.
 L. James Velte, Jr.
 William M. Webb
 E. H. Welbourn, Jr.
 Lawrence G. Wesson, Jr.
 Edmund C. Wingerd, Jr.

\$16,069.88***25th Anniversary Gift****SEVENTY-SEVEN]**

1939

Robert B. Ackerman
 Jerome I. Aron
 H. Lloyd Balderston
 Robert L. Balderston
 John L. Birkinbine
 George D. Bown
 James H. Bready
 Francis G. Brown
 David B. Chapin
 Henry H. Derr
 Jonathan Evans
 William E. Evans
 J. Pierce Fenhagen
 John M. Finley
 John A. Flick
 John D. Hallahan
 Harry A. Heilman, Jr.
 Robert Herr
 John J. Jaquette
 Henry H. Jones
 John E. Lewis
 Richard H. Lillie
 William W. McCune
 Donald S. Mervine
 Louis H. Palmer
 Charles E. Rankin
 William H. Reaves, Jr.
 S. Seymour Rice
 Alan Roberts
 Francis P. Rohrmayer
 Daniel G. Santer
 Winslow D. Shaw
 T. David Shihadeh
 Laird H. Simons, Jr.
 Thomas B. Steiger
 Gilbert P. Talbot
 Howard P. Thomas, Jr.
 John P. Trench
 William H. G. Warner
 Thomas A. Watkins
 Maurice A. Webster, Jr.
 Robert O. Whitson
 D. Norton Williams
 John F. Wilson
 Samuel C. Withers, Jr.

\$16,741.00

1940

Ernest G. Allen
 Bruce D. Anderton
 Henry P. Balivet, Jr.
 Chester E. Baum, Jr.
 Arthur E. Brown
 D. Baird Coursin
 Emerson L. Darnell
 Robert L. Dewees

1940 (Cont.)

John A. Duncan
 Stanley M. Dye
 Charles W. Fisher, Jr.
 David P. Flaccus
 Harry J. Goodyear, Jr.
 John C. Gross
 Hanford M. Henderson
 Alexander C. Hering
 Robert J. Hunn
 John M. Lindley, Jr.
 Hayden Mason
 Samuel G. M. Maule
 Robert W. McConnell, Jr.
 William F. McDevitt
 James E. Mechling
 Fritz Nova
 Charles K. Peters
 Richard A. Poole
 Robert L. Schaeffer
 Charles J. Swift
 Thomas M. Taft
 James A. Vincent
 John W. Wieder, Jr.
 Charles H. Wolfinger
 J. William Wood

\$4,648.00

1941

Edward P. Allinson
 Stephen B. Andrus
 Anonymous
 David B. Arnold
 Arthur G. Ashbrook, Jr.
 H. Richard Blackwell
 Howard L. Blum
 Richard H. Bolster
 Eugene Botelho
 Daniel B. Boyer, Jr.
 Albert D. Branson
 Torrence H. Chambers
 Henry D. Cornman
 Hunt Davis
 Robert B. Dickson
 John W. Dorsey
 Edward L. Engelhardt
 Christopher Evans
 Robert W. Evans, Jr.
 Gerritt L. Ewing
 Louis J. Finger
 Philip C. Gifford, Jr.
 Edwin D. Grosholz
 John C. Hawley
 John B. Hibbard
 Andrew F. Inglis
 Roger B. Kent
 Benton D. King

1941 (Cont.)

William A. Liddell
 Jan W. Long
 James B. Longley
 John R. McNeill
 M. Wayne Moseley
 Samuel M. Murphy, Jr.
 Arthur H. Napier, Jr.
 J. Philip Neal
 Wilson H. Pile
 Malcolm K. Smith, Jr.
 Robert H. Smith
 Samuel M. Snipes
 Leon Solis-Cohen, Jr.
 G. Ralph Strohl, Jr.
 Harry H. Stuart
 George M. Swan
 J. Bruce Swigert
 Roy S. Vogt
 William R. Watson, Jr.
 Kenneth A. Wright
 Howard E. Ziegler, Jr.
\$12,375.71

1942

Charles C. Abbott
 George L. Aldridge
 E. Howard Bedrossian
 Edgar D. Bell, Jr.
 B. Burns Brodhead
 Norman S. Brous
 Knox Brown
 Richard W. Brown
 John A. Clark
 Thomas Cochran, Jr.
 Alan L. Dorian
 Robert W. Dunham
 Roy A. Dye, Jr.
 Edgar R. Emery
 Arthur Evans
 Walter C. Falconer
 John D. Farquhar
 Edward Flaccus
 John B. Flick, Jr.
 David S. Fox
 John A. Fust
 James F. Gary
 C. Kirk Greer
 Louis N. Grier
 J. Jarden Guenther, Jr.
 Gove Hambidge, Jr.
 Heber R. Harper
 Timothy P. Haworth
 Gordon W. Howe
 Henry W. Johnstone, Jr.
 T. Canby Jones
 Richard Kay

1942 (Cont.)

L. Theodore Lawrence
 In Memory of
 James P. Magill, II
 Malcolm H. McGann, Jr.
 Philip F. McLellan
 Clyde Nichols, Jr.
 Paul R. O'Connor
 Charles A. Olson, Jr.
 Kenneth S. Roberts
 L. Paul Saxer
 Charles D. Schaeffer
 David M. Sensenig
 Robert M. Steptoe
 David C. Thompson
 John D. Thomson
 John H. Wise
 W. Scott Worrall
\$9,385.00

1943

John M. Allen
 Eugene E. Anderson, Jr.
 Christopher J. Cadbury
 Tristram P. Coffin
 Paul M. Cope, Jr.
 J. Morris Evans
 Sumner W. Ferris
 Henry E. Funk
 James B. Gilbert
 William L. Grala, Jr.
 Douglas R. Hallett
 John R. Hogness
 Byron E. Howe
 Holland Hunter
 Lewis C. Kibbee
 David B. Kirk
 William E. Knowland
 Howard B. Kriebel
 Leon Levintow
 H. Mather Lippincott, Jr.
 Russell M. Lyman
 Robert MacCrate
 Avrel Mason
 John H. Meader
 John M. Moon
 Sterling Newell, Jr.
 Frank K. Otto
 Norman Peterkin
 John B. Rhind
 George M. Ryrie
 Arnold C. Satterthwait
 John W. Severinghaus
 William Shihadeh
 L. Gerow Smiley
 David D. Somers
 John W. Thacher, Jr.

1943 (Cont.)

Alexander C. Tomlinson
 Haskell Torrence
 William T. Warren, Jr.
 John C. Whitehead
 Carl E. Widney, Jr.
 William N. Wingerd
\$13,200.50

1944

C. Webster Abbott
 C. Seymour Alden
 Ellsworth C. Alvord, Jr.
 Donald H. Baird
 L. Paul Bolgiano
 Horace N. Compton, Jr.
 William K. Conn.
 Jodie D. Crabtree, Jr.
 Cassin W. Craig
 George V. Downing, Jr.
 Thomas Elkinton
 Charles E. Fox, Jr.
 John A. Frantz
 Edgar D. Free
 Henry H. Gray
 Jesse G. Grier
 Edmond E. Hammond, Jr.
 Robert W. Hill
 Walter Hollander, Jr.
 John T. Hough
 William M. Houston
 George W. Hubler
 Edward B. Irving, Jr.
 John S. Klein
 John M. Krom
 David L. Marshall
 Charles McC. Mathias
 William R. McShane
 Daniel K. Miller
 Gilbert H. Moore, Jr.
 Warren Moore, Jr.
 Robert W. Murphey
 Alfred M. Pease, Jr.
 Arnold R. Post
 D. Patrick M. Robinson
 H. Royer Smith, Jr.
 David E. Stokes
 Samuel E. Stokes, Jr.
 Spencer R. Stuart
 Henry S. Vila
 Richard W. Watkins
 Douglas C. Wendell, Jr.
 Harvey Wigfield
 Howard Page Wood
 James H. Worl
\$22,520

1945

T. Crandall Alford, Jr.
 Andrew P. Allinson
 William W. Ambler
 Warren C. Baldwin
 George A. Bartholomew
 David E. Bassert
 I. Edward Block
 Charles Boteler
 John H. Bush
 John R. Cary
 Frederick T. J. Clement
 Richard W. Cole
 Dorland L. Crosman
 Peter Deitsch
 Robert P. Delong
 G. L. DeSchweinitz, Jr.
 Paul H. Domincovich
 Francis E. Fairman, III
 Barton K. Feroe
 Samuel M. Fox, III
 Forrest L. Gager, Jr.
 James Gilmore
 Robert C. Good
 David E. Grant
 Richard T. Hamilton
 Edward H. Handy, Jr.
 Arthur R. Harned
 Ernest M. Heimlich
 David Yi Yung Hsia
 Henry F. Hunter
 Ralph B. Jackson
 Lewis M. Johnson
 James R. Johnston, III
 Arthur E. Jones
 Blackburn S. Joslin
 M. Powell Lawton
 William L. Lehmann
 David Mallery
 Philip C. Mann
 Charles W. Matlack
 A. Gregory Morris
 John W. Pierson, Jr.
 William Pinch, Jr.
 Robert G. Pontius
 Edmond Preston, III
 Geert C. E. Prins
 R. Arnold Ricks, III
 Leon Robbins, Jr.
 Vernon M. Root
 R. Bradley Royer
 Charles R. Sheppard
 Charles A. Shields
 Drayton M. Smith
 Richard S. Valentine
 Christopher Van Hollen

1945 (Cont.)

Stacey H. Widdicombe, Jr.
\$44,383.62

1946

Frederick H. Bartlett
Robert H. Bedrossian
Thomas M. Birdsall
Arthur E. Bryson
Jonathan F. Bushnell
Ward C. Case
William D. Chapman
William H. Chartener
Lewis E. Coffin
Tristram C. Colket
Edward M. Cook
William T. Delp
Hugh M. Edgerton
Robert K. Finley, Jr.
Merrill Goodman
Thomas P. Goodman
S. Harley Gross
Robert E. Henderson
Paul M. Henkels
Walter Y. Kato
Bertram K. Kummel
William M. Lee
John K. Libby
David E. Long
Harold V. Lynch, Jr.
Donald B. McNeill
Thomas W. Meldrum
George Montgomery, Jr.
Peter S. Olmsted
(Deceased)
Robert N. Price
Richard C. Rogoff
Thomas J. Ryan
Charles C. Ryrie
Charles S. Sangree
Stewart P. Schneider
William Sherpick
Richard E. Spatz
David S. Stewart
Joseph Stokes, III
James F. Sutor
Stanley B. Thawley
M. Gordon Wolman
\$8,971.00

1947

William H. Annesley, Jr.
Ragnar Austad
Peter G. Bennett
Jules Bingham
In Memory of
Frederick L. Blake
William F. Bouzarth

1947 (Cont.)

Alan M. Davis
Anthony J. De Phillips
Charles A. Doehlert
Robert M. Dowben
In Memory of
Henry Ecroyd, Jr.
John S. Estey
Edwin B. Klein, Jr.
Charles T. Lenton, Jr.
I. Rolv Lind
Cloyd Marvin
William J. McIlhenny
Donald H. Meldrum
George Nicklin
Howard M. Rawsley
Robert P. Roche
Martin Sanders
H. W. Starkweather, Jr.
Daniel H. Wagner
H. Macy Whitehead
Daniel R. Wright
\$3,357.53

1948

Monroe E. Alenick
Timothy B. Atkeson
William P. Barker
William W. Bell
Byron E. Besse
Joseph C. Birdsall, Jr.
William R. Clark
Craig D. Culbert
C. Daniel Drake
Thomas T. Fleming
Gunther Frankl
William H. Harris
John N. Hauser
John K. Henne
John R. Hoopes, Jr.
J. Archibald Jacob, Jr.
Henry Levinson
Robert Maquinay
Donald H. McCandliss
Robert W. Meyers
Daniel D. Olivier
Martin Oppenheimer
William Pease
David A. Peters
Richard A. Schlegel
Richard W. Schuman
George W. Taggart
Edward S. Wheeler
Robert J. Widmer
\$3,763.00

1949

John D. Anderson

1949 (Cont.)

Omar Bailey
 Addison S. Beckley
 Daniel S. Bernstein
 Kenneth R. Blum
 J. Neil Boger
 Paul C. Brewer, Jr.
 Daniel Brodhead
 William T. Broom
 Harold J. Brownlee
 John E. Brownlee
 James C. Buckley
 Warder H. Cadbury
 Edward H. B. Cornell
 Thomas P. Crolius
 F. James Dallett, Jr.
 M. Daniel Daudon
 Carmen Digiovanni
 Donald W. Disbrow
 Henry J. Dvorken
 Edward Echikson
 C. Willis Edgerton, Jr.
 Robert Edgerton
 Edmund K. Faltermayer
 S. Tucker Fox
(Deceased)
 Charles H. Geoffroy
 I. Robert Goodman
 William K. Gorham, III
 Thomas D. Graff
 G. Stanley Hammond
 Robert Harper
 David S. Hastings
 Donald Hayes
 R. Nicholas Hazelwood
 John B. Henkels, III
 William L. Hires
 George L. Hoffmann, Jr.
 Irving Hollingshead, Jr.
 F. Thomas Hopkins
 Robert G. Hoskins
 H. Alan Hume
 Victor L. Johnson
 Robert J. Johnston, Jr.
 Homer M. Kimmich
 Milton P. King
 David S. Laity
 Walter A. Laity
 Thomas D. Langston
 H. Robert Lasday
 W. S. Mallory Lash
 Isaac C. Lycett, Jr.
 Brian Mead, Jr.
 James Q. Miller
 Stephen R. Miller
 William H. Miller

1949 (Cont.)

DeWitt H.
 Montgomery, Jr.
 George H. Nofer, II
 Wendell W. Oberholtzer
 Robert A. Prosser
 Douglas H. Richie
 George E. Ruff, Jr.
 Carl M. Sangree, Jr.
 Merle A. Schultz
 Edward O. Shakespeare
 C. Robert Shearer
 Royal F. Shepard, Jr.
 Ellis P. Singer
 H. Clement Smith
 Francis M. Snodgrass
 Donald I. Sparks
 Stanley R. Tarr
 David E. Thomas
 James H. Thorpe
 Conrad W. Turner
 Edwin F. Tuttle
 Clark A. Vaughan
 Robert H. Velte
 Francis K. Walnut
 John R. Wilcox
 Robert D. Williams
 Robert A. Wingerd
 Theodore C. Wright
\$11,790.50

1950

John T. Acton
 Harold J. Barker, Jr.
 Joseph A. Barnes, Jr.
 William Barrows
 Wesley R. Betson
 Joseph G. Billo
 William S. Bishop
 L. Gordon Blasius
 David M. Blum
 David M. Brawner
 Paul B. Cates
 Nicholas G. Chantiles
 Herbert Cheyette
 Reginald B. Collier
 George D. Colman
 George Conklin
 Brooks B. Cooper
 James G. Deitz
 John W. Doane
 Lester R. Dragstedt, II
 John C. Dyson
 A. Theodore Eastman
 Thomas H. Edmonds
 Winter G. Ensigen

1950 (Cont.)

Richard A. Feroe
 Richard M. Fletcher
 Peter B. Flint
 James H. Foster
 Edward J. Gately, Jr.
 Thomas B. Gerlach
 David S. Harden
 James B. Hastings
 Robert J. Healey
 David O. Herman
 Hoyt L. Hickman
 Lawrence G. Imhof
 John A. Jackson
 Edgar M. Jamison, Jr.
 Jon J. Johnston
 A. Wilson Jones
 John Z. Katz
 Robert L. Kirk
 Andrew M. Knowlton
 Richard W. Laity
 Fred J. Lind
 William A. Linthicum, Jr.
 Andrew C. Lucine
 W. Bruce MacIntosh, Jr.
 Karl S. Manwiller, Jr.
 Donald B. Martin
 John Marvin
 G. Diehl Mateer, Jr.
 E. Trail Mathias
 Richard S. McKinley, III
 Charles M. Melchoir
 Roger M. Morrell
 Kenneth M. Moser
 Richard N. Myer
 Daniel P. Oppenheim
 Armand R. Ouellette
 Merlin W. Packard
 Robert Parke, Jr.
 Edward L. Pennypacker
 David E. Phillips
 Robert Pollard, III
 Richard E. Rankin
 Charles W. Reninger
 William L. Rhoads, III
 Thomas M. Ridington
 William Y. Rodewald
 Rufus C. Rudisill
 William Schwartz
 Eugene Seder
 Arthur G. Segal
 Joseph W. Sener, Jr.
 Paul R. Smith
 Edward R. Snader, III
 A. Mead Sniffen
 E. Thomas Snipes
 (Deceased)

1950 (Cont.)

Thomas Stern
 Peter Stettenheim
 H. Frederick Strohl
 William M. Swartley
 Runcie Tatnall, Jr.
 Edward W. Test
 Thomas P. Thornton
 David C. Tilley
 John P. A. Todd
 Thomas A. Todd
 Keith H. Turley
 Bernard Van Arkel
 John A. Vitello
 William W. Vogel
 Ian G. Walker
 W. Brinton Whitall
 Robert S. Wickham
 Horatio C. Wood, IV
 James Wood, III
 Andrew J. Zweifler

\$12,334.22**1951**

H. David Abbott
 Donald S. Amussen
 John E. Bell
 Robert DeP. Brown
 Oscar W. Carlson, Jr.
 Allen B. Clayton
 Samuel Colman, Jr.
 William T. Conklin, III
 John J. Cooney
 Nevius M. Curtis
 Hunter O. Cutting
 D. Elwyn Davies
 John H. Davison
 Drew Deacon
 Allen H. Dewees
 John L. Dodge
 Richard J. Eberly
 Philip Edgerton
 Robert B. Edmiston
 Frederick Exton, Jr.
 Philip J. Flanders
 Floyd F. Ford, Jr.
 Robert W. Freeman
 James C. French
 Thomas J. Garbaty
 J. Brooke Gardiner
 Charles D. Griffith
 Donald B. Harris
 Harry H. Hoehler
 John L. Holcombe
 C. Dallett Hoopes
 S. Grafflin Hudson
 John M. Hume
 William Jardine, II

1951 (Cont.)

Victor T. A. Jowers
 Arkady Kalishevsky
 F. Scott Kimmich
 Robert B. Kunkel
 Gilbert M. P. Leib
 William P. Melcher
 Frederick S. Miller, Jr.
 Alexander B. Milyko
 Frederic O. Musser
 Howard T. O'Neill
 John F. Paulson
 James C. Peden, Jr.
 Darwin J. Prockop
 R. James Quillen
 Francis H. Roberts
 C. Stanley Searle
 David W. Seith
 Paul E. Shipley
 Karl H. Spaeth
 Diogenes A. G. Taboga
 John W. Thomas
 Peter K. Thoran
 David K. Trumper
 Robert N. Tucker
 Harold F. Vedova
 Charles N. Welsh
 D. Elliott Wilbur, Jr.
 Alan T. Willoughby
 William D. Wixom
 John G. Zerrer

\$6,900.00**1952**

Albert C. Adam, Jr.
 Robert W. Atkinson
 Peter O. C. Austin-Small
 William L. Bair
 Richard K. Barnes
 Victor Basiuk
 Philip J. Baur
 Peter A. Bien
 Howard Bliss
 William M. Boger
 B. Donald Broadbelt
 Donald C. Chandler, Jr.
 Robert S. Chase, Jr.
 Robert M. Collins
 Sydney M. Cone, III
 Peter Cummins
 William H. Darlington
 William A. Elliott
 Curt F. Fey
 Robert T. Foley
 Robert J. Franke
 Joseph A. Gailey
 Burrill M. Getman, Jr.
 Vincent Gilpin, Jr.

1952 (Cont.)

Edgerton Grant
 Joseph H. Greene, Jr.
 Richard J. Greenwood
 Robert A. Hammond
 Daniel W. Hardy
 Peter R. Haviland
 Craig Heberton
 Frederick V. Hetzel, II
 Edward N. Hibberd, Jr.
 A. Clark Johnson, Jr.
 E. Arnold Jones
 Roger F. Jones
 Frank M. Keetz
 Richard A. Kirk
 Peter W. Lande
 Lawrence M. Leonard
 Eric Loeb
 Leo D. McDermott
 Alfred B. McKenzie
 Richard K. Mead
 William D. L. Melcher
 R. Richard Messick
 Frank V. Miles
 Paul C. Milner, II
 Richard A. Norris, Jr.
 Nicholas Norton
 Peter Oliver
 G. Porter Perham
 Burton E. Pike
 C. Peter Rosenbaum
 Thomas N. Ruth
 Hershel Shanks
 W. Roger Sorg
 Paul L. Sterner, Jr.
 Peter Tapke
 David P. Willis
 F. Thomas Wilson
 Richard E. Wilson
 Thomas M. Woodward, Jr.

\$5,348.00**1953**

A. Reid Allison, Jr.
 Thomas M. Anderson, Jr.
 Anonymous
 John F. Benton
 Thomas N. Bisson
 Joel M. Bockol
 Elmer B. Carter
 Robert W. Crichlow
 Robert T. Curran
 Hugo L. Deaton
 David N. Denman
 Joseph S. Dibble
 John Dixon
 Daniel R. Fascione
 Kenneth L. Fernandes

1953 (Cont.)

E. Lee Forker
 David S. Fuller
 George C. Fuller
 Milton McC. Gatch, Jr.
 Thomas H. Goldsmith
 Richard K. Gundry
 Norris Hansell, IV
 Joseph E. Helweg, Jr.
 Herbert W. Hickman
 John R. Hitchcock
 Hubert F. Howson
 Herbert A. Huene
 Milton H. Isay
 Richard T. Lane, Jr.
 John W. Ledebauer, Jr.
 John M. Leggett
 Arthur W. Leibold, Jr.
 Andrew L. Lewis, Jr.
 Somervell Linthicum
 Robert G. Logan
 Robert S. Matteson
 Norman D. Mattson
 David A. Mayer
 Lawrence C. Morris, Jr.
 T. Morris Perot, IV
 F. Jackson Piotrow
 H. Edward Reed
 Edward P. Rich
 C. Evans Roberts, Jr.
 Charles N. Robinson
 Burton R. Saidel
 Robert C. Scherer
 G. David Schlegel
 J. Peter Schmitz
 Robert C. Sechrest
 Robert T. Seeley
 Mark Sexton
 Labron K. Shuman
 John M. Somerndike
 Philip R. Stansbury
 Joseph H. Stein, Jr.
 Frederick D. Tabbutt
 Lewis J. Thomas, Jr.
 Hsin Yuan Tien
 Philip G. Vance
 David C. Wilson
 Mitchell Winn
 Thomas A. Wood

\$6,221.50**1954**

Philip S. Benjamin
 M. Wyllis Bibbins
 William H. Bittel, Jr.
 Richard B. Bourne
 John C. Burton
 E. Kearney Carpenter

1954 (Cont.)

W. Wistar Comfort
 Paul P. Craig
 James D. Crawford
 Joseph G. T. DeBerry
 H. Michael Dunn
 Sterling J. Eagleton
 Robert P. Feeser
 James P. Felstiner
 Lawrence J. Finkelstein
 Stanley A. Forster
 Orrin Frink
 Charles L. Fry
 Peter C. Gardner
 John F. Garrity, Jr.
 Robert A. Glatzer
 Peter B. Gontrum
 Christian M. Hansen, Jr.
 Keith J. Hardman
 Earl G. Harrison, Jr.
 John S. C. Harvey, III
 Conrad D. Hellwege, Jr.
 Thomas S. Hiers
 Edward P.

Hollingsworth, Jr.
 Jonathan A. Hummel
 L. Morris Johnson
 Richard I. Jones
 William G. Kaye
 Stephen J. Kindig
 P. Richard Klein
 Mark C. Lissfelt
 Michael Moore
 D. Frederick Muth
 R. Ronald Reno, Jr.
 Thomas B. Rentschler
 John B. Rettew, III
 Rodman S. Rothermel
 Stephen H. Sachs
 Edward M. Steele
 Richard K. Taylor
 E. J. Baylis Thomas, III
 T. Darrah Thomas
 Carlo M. Veneziale
 William B. Watson
 Christopher White
 William C. Wilson
 Peter Woll
 John C. Wren

\$6,461.50**1955**

Gerald S. Albright
 Alexander C. Allen
 John J. Allen
 Robert W. Alvord
 Harris C. Arnold, Jr.
 Koya Azumi

1955 (Cont.)

Lee C. Bennett, Jr.
 Eric D. Blanchard
 Theodore R. Bledsoe
 Anthony Borton
 James B. Bradbeer
 William S. Bradfield, Jr.
 Charles R. Brainard
 James A. Braker
 John E. Dixon
 Roswell Eldridge
 John B. Flint
 Marc A. Forman
 Alexander H. Frey, Jr.
 Alexander Goldfinger, Jr.
 Thomas B. Goodkind
 George W. Gray
 Richard D. Hardy
 Pierce C. Hazelton
 David E. Hogenauer
 Johns W. Hopkins
 M. Alanson Johnson
 Chase D. Kepner
 Morton S. Mandell
 Richard W. Marek
 William S. Masland
 John G. McDonald, Jr.
 Grant Morrow, III
 Urban Moss
 John H. Osler
 Garth R. Parker
 Paulding Phelps
 Harrison C. Raper
 Robert E. Read
 Richard D. Rivers
 Peter B. Rosenberger
 M. Huyett Sangree, Jr.
 Joseph Schatanoff
 Robert G. Schwartz
 John K. Speicher, Jr.
 John M. Strotbeck
 David C. Sutton
 Robert G. Wilson

\$2,908.44**1956**

John K. Armstrong
 Peter H. Armstrong
 J. Winsor Baker, Jr.
 A. Ralph Barlow, Jr.
 Donald F. Cohill
 Philip D'Arrigo
 John H. Dick
 Mark B. Freedman
 Harold M. Friedman
 Thomas H. Garver
 John H. Gould
 Joseph E. Green, III

1956 (Cont.)

Norman Grossblatt
 Winfield S. Hall
 Daniel E. Harris
 John R. Hawkins
 Joseph L. Horner
 R. Allen Irvine
 Richard A. Isay
 In Memory of
 Otis S. Johnson
 George P. Keeley
 Jerome J. Klinman
 Stephen B. Knowlton, Jr.
 Theodore G. Kummer
 Ernest Kurkjian
 Charles B. Lane
 Walter E. Langsam
 H. Michael Mann
 John F. Marquardt
 Robin S. McDowell
 Arthur M. McLean
 Donald C. Mead
 John H. Mikhail
 Louis H. Miller
 Richard C. Monroe
 John L. Pfaltz
 Theodore M. Regan, Jr.
 Fritz G. Renken
 Peter M. Renner
 H. Burr Richardson, Jr.
 C. Robert Ruppenthal, Jr.
 Frederick N. Schwentker
 David B. Seaver
 H. Stark Semans
 James R. Shuster
 Steven Sieverts
 Michael Smith
 Geoffrey H. Steere
 John M. Stephens
 Robert K. Togasaki
 Robert R. Traut
 Robert M. Turner
 Robert P. Wallace
 D. Sellers Walton
 D. Alexander Wieland, Jr.
 Lewis R. Woodham
 Lamar D. Woznicki

\$3,887.00**1957**

Marc F. Abramson
 Anthony G. Amsterdam
 Anonymous
 Mason Barr, Jr.
 Blaine L. Block
 Robert C. Challener
 Pierre Clavel
 Clive R. Coroneos

1957 (Cont.)

Arthur Cowen
 Donald A. Crane
 Robert W. Densford, II
 Benjamin A. Dent
 William P. Doherty, Jr.
 Michael B. Donham
 Richard Forman
 Roger S. Foster, Jr.
 Seth Gibson
 Robert H. Goldberg
 Diller B. Groff, III
 Benson H. Hart
 Warren Hecht
 Rolland H. Henderson
 P. Donald Hopkins
 Allan A. Hunter, Jr.
 Akira Iriye
 Stanley B. Johnson, III
 Robert W. Kilpatrick
 Edwin J. Kirby, Jr.
 Joel M. Levin
 Robert J. Lindeman
 W. Herbert Long, III
 Charles S. Mack
 Louis R. Matlack
 Douglas W. Meaker
 Erik B. Mezger
 William W. Moss, III
 William L. Newmeyer, III
 Paul E. Nickel
 Robert W. Noyes
 Lincoln D. Paine
 Neil W. Plass
 Richard C. Rehmeier
 Ralph C. Sanson, Jr.
 John R. Schott
 Richard B. Smith
 Edward J. Stevens, III
 William D. Stine
 Daniel W. Swift
 Henry M. Thomas, III
 Joseph S. Torg
 H. Thomas Unger
 Richard V. Wagner
 John G. Wallace
 James N. Whitney
 E. Reed Wilbur
 Jack N. Wilentz
 David L. Willcox
 Howard L. Wolf
 William A. Yost, III
 Peter K. C. Zavitz

\$4,727.25**1958**

John F. Adams
 M. Ian Adams

1958 (Cont.)

Paul L. Aiken, Jr.
 Nyles N. Barnert
 Cheston M. Berlin, Jr.
 William C. Bertolet
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 Edward L. Bradley
 Alfred S. Buck
 Laurence B. Christmas
 David W. Ellis
 Michael R. Fogel
 Burton Friedman
 Kenneth L. Geist
 Leigh M. Gelser
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 Allan Gold
 Newcomb Greenleaf
 Lauro D. S. Halstead
 Eric J. Harrison
 William B. Harvey
 John W. B. Hershey
 Horatio S. Hill
 James D. Holmes
 Robert J. Hopper
 Douglas S. Kerr
 Norman R. Klinman
 Robert L. Krause
 Carl N. Kunz, Jr.
 Harold P. Kurzman, Jr.
 Thomas Maddock, II
 Anthony A. Manheim
 Thomas A. Medsger
 J. Wilson Myers
 Kemble P. Nolte
 Perkins C. Pedrick
 Harvey E. Phillips
 Hermann K. Platt
 Robert G. Pratt
 Leighton A. Price
 B. Graham Ralph
 Mark H. Randall
 David A. Richie
 Paul G. Rodewald, Jr.
 Richard E. Schramm
 Earl J. Smith
 E. Chadwick Squires
 Kenneth A. Tannenbaum
 C. Howard Thomas, Jr.
 J. Peter Tilley
 Donald P. Winter
 Roger D. Wollstadt

\$2,728.00**1959**

Henry J. Alexander
 D. Ridgely Bolgiano
 J. Gurdon Brewster
 Bruce D. Campbell

1959 (Cont.)

David Char
Jonathan Clark
Daniel M. Clemson
Robert M. Colburn
William S. Comanor
John Coulthurst
Peter N. Davis
John G. DeJong
Frank S. Dietrich
Peter J. Eidenberg, III
Hans W. Engelhardt
Mead M. Feick
Allen C. Fischer
J. Dexter Forbes
John M. Foshay
David L. Grambs
Alexander A. Green
John D. Gresimer, II
Laurence S. C. Griffith
Jeffrey K. Hecht
Elliott M. Heiman
John H. Hornbaker, Jr.
Garry Hyatt
Alan E. Johnson
Michael M. Kaback
Walter E. Kaegi, Jr.
David H. Kain
James A. Katowitz
Robert L. Kriel
Richard H. Lederer
Harry M. Leeser
Gordon A. Liechty
William M. Longstreth
Joel R. Lowenthal
Frank T. Lyman, Jr.
Joseph M. Mamana
Robert M. Matthews
Laurence C. Maud
Hugh W. McLeod
J. David Miller
J. Philip Miller
James H. Morris
James R. Moyes
Paul E. Norris
N. Tenney Peck
Henry A. Phillips
Charles B. Pursel
Emery V. Rice
Theodore A. Robinson
Donald A. Scarborough
Donald B. Scholl
Palmer G. Steward
Donald A. Stone, Jr.
William G. Taylor
Martin V. B. Teem, Jr.

1959 (Cont.)

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Stuart H. Tubis
John R. Vastine
Edwin D. Wolf

\$3,776.00**1960**

Randall L. Albright
Peter L. Arnow
Truman C. Bullard
George G. Carpenter
John W. Coker
Robert L. Coles
Jonathan A. Collett
Coulson A. Conn
Daniel J. Cook
James D. Cooper
Albert E. Dahlberg
Joseph G. Fulkerson
Philip V. Gerdine, Jr.
Frank L. Harvey, III
John B. Hayter
R. David Hillier
Peter B. Howard
W. James Howard
John B. Hurford
Malcolm E. A. Kaufman
C. Herman Klingensmaier
Gerald M. Levin
John G. Macort, Jr.
Robert P. Margie
Robert S. Miller
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Werner E. Muller, Jr.
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Benjamin H. Newcomb
Charles F. Osgood
George G. C. Parker
Kendrick W. Putnam
J. Allen Ramey
David G. Rhoads
Jonathan E. Rhoads, Jr.
Charles C. Roberts
Joseph E. Rogers, Jr.
David L. Rondthaler
D. Hugh Rosenbaum
A. Louis Sheitelman
John E. Shepherd, Jr.
David Shivers
(Deceased)
Brownlow M. Speer
Leland E. Stevenson, Jr.
Daniel P. Stites
Dudley W. Summers
Samuel M. V. Tatnall
Marc R. Wedner

1960 (Cont.)

Jonathan S. Weil
 Norman M. Woldorf
 Arthur W. Wright
 Ralph T. Wright

\$2,695.50**1961**

Gordon W. Adams
 Carl R. Alving
 Marc B. Anderson
 Alan W. Armstrong
 Thomas T. Army
 Michael R. Dohan
 George L. Fernsler, Jr.
 Peter D. Fox
 Melvin L. Gary
 William R. Grose, II
 Erik P. Hoffmann
 Stephen L. Klineberg
 Martin C. Lehfeldt
 Richard F. Lockey
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 Edward A. Mechling
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 E. Kerfoot Ritter, Jr.
 Edward R. Silverblatt
 Lewis F. Smith
 Thomas B. Souders
 Francis J. Stokes, III
 Fred C. Swan
 Hollinshead N. Taylor
 Alan C. Tillis
 Kenneth K. Trabert

\$865.00**GRADUATE
STUDENTS**

Laurence W. Auld, '29
 Alson H. Bailey, '31
 John H. Bottjer, '49
 Wilbert L. Braxton, '33
 Edwin B. Bronner, '47
 Dorelen Feise Bunting, '45
 William D. Burbank, '36
 Wallace T. Collett, '37
 William Conlon, '54
 Florence T. Cox, '23
 Mary Esther
 Dasenbrook, '45
 Elizabeth B. Garrison, '45
 Marlis Gildemeister, '44

Graduate Students (Cont.)

Priscilla K.
 Goldthwaite, '45
 Michael Gunther, '55
 George W. Hagner, Jr., '48
 Margit Hilsenrad, '55
 Daniel N. Hoffman, '53
 Allen D. Hole, Jr., '30
 Clayton W. Holmes, '33
 Luther M. Hunt, '96
 Arland I. Innes, '27
 J. C. Joachim Jaenicke, '40
 Elizabeth Marsh
 Jensen, '25
 Betty Freyhoff
 Johnson, '47
 Ira O. Kemble, '95
 Samuel D. Kron, '40
 Hershal L. Macon, '25
 Robert K. Marshall, '26
 Gerald D. McDonald, '28
 Ivan C. Milhous, '31
 Esther Morrison, '45
 Frank G. Nelson, '31
 Barbara T. Nichols, '45
 Anja Olin, '53
 David H. Parsons, Jr., '34
 Clarence R. Perisho, '39
 Laurama Page Pixton, '45
 John N. Plank, '53
 Joyce Wuesthoff
 Povolny, '54
 Charlotte Brooks Read, '44
 Constance Walton
 Rendall, '45
 Annette J. Reynolds, '45
 Comfort Cary
 Richardson, '45
 Fritz Rüdiger, '27
 S. Roy Schuckman, '53
 Samray Smith, '35
 Warren Swartzback, '53
 J. Spottswood Taylor, '24
 Allen M. Terrell, '32
 Clarence E. Tobias, Jr., '30
 Jean Lichman
 Trapido, '45
 Robert van der Voort, '30
 Paul W. Wager, '20
 Paul W. Weiser, '53
 Frank K. Weiskel, '42
 Raya Schachman
 Weissman, '54
 Anne Stiles Wylie, '46
\$6,557.47

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 Dr. Milton Kannerstein
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 Joseph Katowitz
 Mr. and Mrs. Philip A. Kaye
 Wylie Kilpatrick
 Mrs. Emil Kimmich
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 Michael E. Kratz
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 Frank E. Lamphere

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Mr. and Mrs. Jesse Lehman
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Rev. and Mrs. Othniel Pendleton
Mr. and Mrs. Robert Penn
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Hugo M. Pfaltz
Harry Phillips
Mr. and Mrs. Henry Phillips, Jr.
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Stavman L. Reed
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Mr. and Mrs. Walter Rentschler
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Robert L. Roberts, Jr.
Dr. and Mrs. Harry Robinson, Jr.
William T. Robinson, Jr.
Arthur Rosenbaum
Samuel R. Rosenbaum
Mr. and Mrs. Norman Ruberg
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Dr. and Mrs. Frederick Sanford
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Robert Scholl
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Dr. and Mrs. Abraham Schwartz
Mrs. Leighton R. Scott
Mr. and Mrs. Samuel Segal
Mr. and Mrs. Herman Shafer
Mrs. Mark Shapiro
Mr. and Mrs. Lauriston Sharp
Mr. and Mrs. William Shelton
Samuel Shuman
Dr. and Mrs. Seymour H. Silvers
Mr. and Mrs. Charles Simmons, Jr.
James Smillie
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Mr. and Mrs. George D. Smith
L. Cheyney Smith
Mr. and Mrs. Peter Smith
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Mrs. William C. Stadie
Mrs. Howard Starkweather
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Dr. Leland E. Stevenson
Mrs. Graves Taylor
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D. Alexander Wieland
Mr. and Mrs. Harold T. Williams
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Willis K. Wing
Howard A. Wolf
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Total \$69,113.83

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Mrs. George Allen
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Anonymous
Manuel Asensio
Francis R. Bacon
Mr. and Mrs. Samuel H. Baker
Thomas Beddow
Philip W. Bell
Mary Bethel
Agnes Croll Blackburne
William Blakeley, 3rd
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Mrs. Nathan Bregman
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A. Reynolds Crane
Marilyn Curran
Dr. and Mrs. Arthur Dannenberg
Mrs. Louis Dennett
Paul Desjardins
Mr. and Mrs. W. D. Dickinson
Dr. and Mrs. Thomas E. Drake
Harmon C. Dunathan
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Frank W. Fetter
Irving Finger
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Emma Weston Forbes
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Mabel Georgion
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Marcel Gutwirth
Douglas Heath
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Miriam E. Jones
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Wallace MacCaffrey
Colin MacKay
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Ward Madison
Virginia McCall
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Martin Mellinger
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George L. Morris
Mrs. Joseph H. Morris
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Prof. Alexander Purdy
Chester Reagan
Dr. and Mrs. Ira Reid
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Alfred W. Satterthwaite
Mrs. Alfred Scattergood
Margaret Scattergood
George W. Schell
Mr. and Mrs. R. J. Schutte
Mr. and Mrs. Walter Selove
Mrs. Robert Shank
Alice Smith
Mary C. Smith
Mr. and Mrs. Robert L. Smith
Edward Snyder
Louis Solomon
Herman Somers
John Spielman, Jr.
Douglas Steere
Mrs. Edward Steiner
Mrs. Francis J. Stokes
Mrs. J. Stogdell Stokes
Alfred J. Swan
Mrs. Alice M. Swift
Elizabeth Tarquinio
Howard M. Teaf, Jr.
Mrs. Frances W. Terry
Mrs. Arthur H. Thomas
Craig R. Thompson
Beatrice Tomaselli
Mrs. Willard Tomlinson
Louise M. Trueblood
The Rt. Rev. A. Yu Yue Tsu
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Mrs. Frances Warner
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Mrs. John Flint West
Morris M. Wexler
Gilbert F. White
Robert White

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H. Justice Williams
Russell R. Williams, Jr. (*Deceased*)
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Total \$97,660.00

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*These organizations made gifts to Haverford to match those of Alumni and other friends.

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Rose Hirsh Wolf Fund

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Total — \$74,620.02

SUMMARY

Alumni Subscriptions	\$1,004,525.18
Non-Alumni Parents	75,189.83
Non-Alumni Friends	94,904.00
Corporations and Foundations	72,310.02
Subscriptions reported elsewhere	195,715.19
Total for Haverford College Development Program	\$1,442,644.22

* These organizations made gifts to Haverford to match those of Alumni and other friends.

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Margaret Conklin	
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Hugh Borton	
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Thomas Drake	
William A. Liddell	
Class of 1958	
	\$3,961.81

FOR PRIZES

Anonymous	
	\$100.00

FOR SCHOLARSHIPS

*Director of City Trusts—Philadelphia Friends Freedmens Association	
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*City of Philadelphia—Mayor's Office	
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	\$43,370.49

* for students specified by donor

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E. I. duPont de Nemours & Co.	
Caroline Newton	
Christian R. and Mary Lindback Foundation	
Paul Craig	
Radio Club	
Friends Historical Society	
D. Norton Williams	
Clifton Bockstoce	
Robert C. Atmore	
R. Gibbs	
Fund for Independent Colleges	
Thomas H. & Mary Shoemaker Fund	
Shell Company	
National Science Foundation	
	\$94,567.13

FACULTY PROJECTS

National Institutes of Health	
National Science Foundation	
Atomic Energy Commission	
	\$64,203.00

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Cornelia T. Biddle	
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 Miss Mary P. Parsons
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 Mr. & Mrs. John F. Rich
 Caroline Robbins
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 Dr. S. Emlen Stokes
 Mrs. Arthur Thomas
 Miss Carol H. Thomas
 Mrs. C. Wilbur Ufford
 Mrs. Harold Van Doren
 Mrs. M. L. Van Moppes
 Mrs. R. R. Van Valkenburgh
 Mrs. John Van Hulsteyn
 Mrs. George Vaux

Friends of Music (Cont.)

Adolph Vogel
 Mr. Robert I. Walter
 Miss Dorothy Wire
 Miss Rebecca B. Wistar
 Owen J. Wister
 Mrs. Raymond D. B. Wright

\$ 856.00**FOR THE "LIBRARY ASSOCIATES"**

Miss Ann C. Almy
 Dr. and Mrs. Russell A. Anthony
 Mr. and Mrs. George F. B. Appel
 Dr. and Mrs. Kenneth E. Appel
 Mr. and Mrs. Manuel J. Asensio
 Mr. and Mrs. John Ashmead, Jr.
 Mr. and Mrs. Walter Baker
 Mrs. G. B. Beaumont
 Mr. Terry Belanger
 Mrs. Robert Montgomery Bird
 Mr. and Mrs. Paul Bleyden
 Mr. Harold F. Bodine
 Mr. and Mrs. Hugh Borton
 Mr. and Mrs. Harold W. Brecht
 Mr. and Mrs. Donald G. Brien
 Mr. and Mrs. Carroll T. Brown
 Mrs. Helen C. Bush
 Mr. and Mrs. Henry J. Cadbury
 Mr. and Mrs. William E. Cadbury, Jr.
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 Mrs. Richard Cary
 Mr. and Mrs. Aldo Caselli
 Mr. and Mrs. George K. Chandler
 Mr. and Mrs. Henry Clifford
 Dr. and Mrs. J. Howard Cloud
 Mr. and Mrs. Hayward H. Coburn
 Miss Margaret Conklin
 Mr. O. L. Coward
 Mr. and Mrs. Carlton Cressman
 Dr. and Mrs. David M. Davis
 Mr. John H. Davison
 Miss Meribah C. Delaplaine
 Mr. and Mrs. William B. Dickinson
 Mr. and Mrs. Thomas E. Drake
 Mr. and Mrs. Henry S. Drinker
 Mr. and Mrs. Harold Evans
 Mr. William Bacon Evans
 Mrs. McClure Fahnestock
 Dr. John W. Flight
 Mr. and Mrs. Richard W. Foster
 Mrs. Corinne Friend
 Mrs. Sara K. Fuller
 Mr. and Mrs. Douglas W. Gould
 Mr. and Mrs. Louis C. Green
 Mr. and Mrs. John F. Gummere
 Mr. and Mrs. Richard M. Gummere

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 Miss Ethel Hastings
 Mrs. John V. Hastings, Jr.
 Mr. and Mrs. John V. Hastings, 3rd
 Mrs. Theodore H. Hart
 Mr. and Mrs. Roy A. Helton
 Mr. and Mrs. S. J. Herben
 Mrs. John Herndon
 Mrs. Laurent O. Hess
 Mr. and Mrs. Harrison S. Hires
 Mr. and Mrs. William L. Hires
 Mr. and Mrs. Clayton W. Holmes
 Mrs. Langley S. Homer
 Mr. and Mrs. Allen F. Horton
 Mr. and Mrs. Holland Hunter
 Miss Martha Constance Hyslop
 Mrs. Francis E. Hyslop
 Mr. and Mrs. Ames Johnston
 Miss Mary Hoxie Jones
 Miss Miriam E. Jones
 Mr. and Mrs. J. Barclay Jones
 Mr. and Mrs. John D. Kenderdine
 Mr. and Mrs. George A. Kennedy
 Mrs. William M. Kift
 Dr. and Mrs. John M. Kimmich
 Mr. and Mrs. M. Alexander Laverty
 Mr. and Mrs. John A. Lester, Jr.
 Mrs. Arthur Leverkus
 Mr. and Mrs. M. Albert Linton
 Miss Dorothy H. Litchfield
 Mr. and Mrs. Robert A. Locke
 Mr. and Mrs. Dean P. Lockwood
 Mrs. J. Henry Longmaid
 Mr. and Mrs. Archibald MacIntosh
 Mr. and Mrs. William M. Maier
 Miss Belle Matheson
 Mrs. Joseph B. McCall
 Miss Virginia A. McCall
 Mr. Price Meade
 Dr. and Mrs. Stuart Mudd
 Mr. Clarence N. Myers
 Miss Caroline Newton
 Dr. and Mrs. Jesse T. Nicholson
 Mr. and Mrs. Robert S. Noone
 Mr. and Mrs. Cletus O. Oakley
 Mr. and Mrs. Paul W. Ohl
 Mr. and Mrs. Raymond T. Ohl
 Mr. and Mrs. Frederic Palmer
 Mr. and Mrs. Charles Perry
 Mrs. John C. Powell
 Mr. and Mrs. L. Arnold Post
 Miss Ida Pritchett
 Mr. and Mrs. Francis J. Quinn
 Mrs. Conyers Read
 Mr. and Mrs. Richard O. Recknagel

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 Dr. and Mrs. Jonathan E. Rhoads
 Mr. and Mrs. John F. Rich
 Mr. Charles S. Ristine
 Mr. and Mrs. William P. Sadler
 Mr. and Mrs. Ralph M. Sargent
 Dr. and Mrs. Lewis C. Scheffey
 Dr. and Mrs. Frederic C. Sharpless
 Mr. and Mrs. Thomas K. Sharpless
 Mr. Lucius R. Shero
 Mrs. Herbert H. Smith
 Miss Mary C. Smith
 Mr. and Mrs. Edward D. Snyder
 Mr. Freas B. Snyder
 Mr. and Mrs. Herman M. Somers
 Mr. and Mrs. Arthur E. Spellissy
 Mr. and Mrs. John P. Spielman, Jr.
 Mr. and Mrs. Herbert W. Starr
 Miss Margaret H. Steen
 Mrs. J. Stogdell Stokes
 Mr. Hugh E. Stone
 Miss Gertrude Stout
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 Miss Carol H. Thomas
 Dr. and Mrs. Henry M. Thomas, Jr.
 Miss Marjorie L. Thompson
 Dr. and Mrs. Owen J. Toland
 Mrs. Albert C. Tyler
 Mr. and Mrs. W. Wyclif Walton
 Mrs. Suzanne Welsh
 Mr. and Mrs. W. Nelson West, 3rd
 Mrs. Kenneth L. Wheeler
 Mr. and Mrs. F. Earl Williams
 Miss Elizabeth A. Williamson
 Mr. and Mrs. D. Wright Wilson
 Miss Rebecca B. Wistar
 Mrs. Kurt Woerner

\$ 826.80**FOR THE GEORGE TAI
SCHOLARSHIP**

Howard Comfort
 Paul R. Haviland
 Howard J. Hogenauer
 John F. Rich
 Lawrence N. Taylor

\$ 215.00**FOR THE SCHOLARSHIP FUND
"In Memory of Thomas S. Ellis, IV"**

Mabel Georgion
 Mr. and Mrs. M. Alexander Laverty
 Mr. and Mrs. Clarton J. O'Connor

\$ 70.00**NINETY-SEVEN]**

FOR THE HENRY S. DRINKER FUND

Francis Heed Adler, M.D.
Mrs. George Agnew
Stephen B. Andrus
Mrs. John W. Appell
Dr. and Mrs. John H. Arnett
Mr. and Mrs. David E. Bassett
Eleanor A. Bliss
John Bodine
Mr. J. E. Butterworth, Jr.
Dorothy J. Carey
Carmel Bach Festival, Inc.
Mr. Zechariah Chafee
Mr. and Mrs. Eric T. Clarke
C. R. Cox
Mrs. Charles A. Currie
Curtin Winsor
Mrs. Alston Dana
Nancy M. Darling
Mrs. T. McKean Downs
Mr. and Mrs. James B. Drinker
Dr. and Mrs. Philip Drinker
Mr. Morris Duene
Luther P. Eisenhart
Woodruff J. Emlen
Mr. Rowland Evans
Mrs. William H. Frederick, Jr.
Carlton P. Fuller
Mrs. S. K. Fuller
Mrs. Virginia M. Fuller
Mrs. E. B. Getze
Mrs. William Gratwick
Mrs. Elizabeth H. U. Green
Roger L. Greif, M.D.
Mrs. Edward Harvey
George A. and Anne M. Hay
Mrs. Nathan Hayward
R. Hellmer
G. C. Henny, M.D.
Mrs. C. F. Hoffman
Mary Howe
Anne Hull
Mr. and Mrs. Everett L. Hunt
Charles Jared Ingersoll
Miss Marion Ives
L. Morris Johnson, M.D.
Mrs. George R. Kaplan
Mrs. Robb B. Kelly
Lila P. Kennedy
Mrs. Donald Kent
Mr. Peter D. Knowles
Mrs. Franz Leichter
Mr. and Mrs. H. H. LaMent
Mrs. Alice Lattimore

Henry S. Drinker Fund (Cont.)

M. Albert Linton
H. Mather Lippincott, Jr.
Mrs. Clifton Lisle
Arthur W. Locke
Mr. and Mrs. Bruce A. Ludgate, Jr.
Eleanor Wayne MacPherson
Miss Elizabeth Madeira
Francis K. C. Madeira
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Virginia A. McCall
Jeanne B. MacManus
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Mrs. George Mikhailapov
Miss A. Kathrine Miller
Mrs. Gilbert M. Montgomery
C. Christopher Morris
Mrs. John B. Muir
Miss Annemarie Neumann
Mrs. Wm. Price Newhall
The New School of Music, Inc.
Mr. and Mrs. Robert S. Noone
North Central Concert Choir
George Pownall Orr
Miss E. Helen Pendleton
Potsdam College
Development Fund, Inc.
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Miss Barbara C. Rex
Miss Caroline Robbins
Eleanor A. Robbins
Samuel R. Rosenbaum
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Pemberton H. Shober, Jr.
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Mrs. Wilson Smith
Marion G. Spangler
June E. Sprague
Edith A. Standen
Dr. Isaac Starr
Mr. Peter Stettenheim
Mrs. J. S. Stokes
Dr. S. Emlen Stokes
James A. Sutton
W. F. G. Swann

Henry S. Drinker Fund (Cont.)
Barbara C. Swartout
Mr. James A. Sykes
Mr. and Mrs. C. Newbold Taylor
Daniel D. Test, Jr.
Mrs. Winifred Tilbury
Mrs. Clarence Tolan, Jr.
Mrs. C. Wilbur Ufford
Edna M. Welsh
Mrs. William B. Whelen

Henry S. Drinker Fund (Cont.)
Miss Dorothy Wire
Mr. Owen J. Wister
Mrs. Howard Wood, Jr.
Stanley R. Yarnall
Mrs. Ann H. Zelle
\$7,377.50

Total for Other Donations
\$215,547.73

RECAPITULATION OF DONATIONS ACTUALLY PROCESSED AT THE COLLEGE

Received at Office of the Comptroller

New Donations

Reported pp. 95 - 99

\$215,547.73

Class Gifts (1912, 1936,
1937, 1938)

17,755.25

Refund of Expenses

\$264,878.98

Received at Development Office

430,205.57

\$695,084.55

31,576.00

SUMMARY OF THE ACCOUNTS OF
THE CORPORATION OF HAVERFORD COLLEGE

WM. MORRIS MAIER, TREASURER

ALDO CASELLI, COMPTROLLER

For the 10 months Period ending June 30, 1962

RECEIPTS

Income from Endowment Funds Consolidated

Funds for General Purposes	\$ 415,432.62	
T. Wistar Brown Graduate Sch. Fd.	24,832.92	
Morris Infirmary Funds	1,221.36	
Haverford Union Funds	92.84	
Scholarship Funds	35,235.33	
Library Funds	24,988.93	
Old Style Pensions	19,331.21	
Special Purposes Funds	8,460.44	\$ 529,595.65

Income from Non-Consolidated Funds

John Farnum Memorial Fund	\$ 1,541.03	
W. Percy Simpson Trust	1,613.50	
Henry C. Brown Trust	987.45	
Augustus Taber Murray Research Scholarship Fund	1,432.13	
C. W. Stork Art Gift Fund	486.69	
Walter R. Faries Scholarship Fund	2,005.00	
Wm. Pyle Philips Fund	127,799.97	\$ 135,865.77

Income from Current Funds Invested

14,324.09 \$ 679,785.51

Income from College Sources

Tuition	\$ 617,957.50	
Board	192,857.71	
Rooms	106,554.00	
Board and Rooms from non students	39,612.01	
Unit Fee	58,610.00	
Miscellaneous Receipts	35,777.54	1,051,368.76

Interest received 1,223.30

Donations for Additions to Funds (see schedule) 60,470.17

Donations for Additions to Funds Non Consolidated (see schedule) 10,735.00

Donations other than Funds

For General and Special Purposes

From Wm. Maul Measey Trust	\$ 7,302.13	
From Esso Foundation	5,000.00	
From Philadelphia Quartz	5,000.00	
From Anonymous	16,000.00	
From E. I. duPont de Nemours Co.	1,500.00	
From Caroline Newton	800.00	
From Lindback Foundation	1,500.00	
From Paul Craig	150.00	
From Friends Historical Assn.	250.00	
From Foundation for Independent Colleges	9,334.90	
From Sundry Gifts	124.79	\$ 46,961.82

For Scholarships

From Board of City Trusts	\$ 300.00
From Friends Freedmen's Association	3,000.00

Forward \$1,803,582.74

Forward \$1,801,582.74

For Scholarships (continued)

From National Merit Corporation	\$ 7,300.00	
From General Motors Corporation	2,890.00	
From Union Carbide Corporation	2,175.00	
From Scott Paper Foundation	3,750.00	
From Board of Education (Philadelphia)	2,800.00	
From Public Welfare Foundation	2,000.00	
From Pittsburgh Plate Glass Co.	2,000.00	
From African-American Institute	2,500.00	
From Lindback Foundation	1,500.00	
From Bishops Fund - Diocese of Philadelphia	2,487.49	
From Carl F. Boester	3,485.00	
From Phila. Bulletin Contributionship	700.00	
From Newspaper Fund	500.00	
From Yale University	650.00	
From Union College	500.00	
From Mendenhall Memorial Foundation	300.00	
From Rotary Club of Harrisburg	250.00	
From Mayor's Office - Philadelphia	100.00	
From Liberty School Mother's Club of Girard, Ohio	100.00	
From Rotary Club of Wilmington, Ohio	500.00	
From University of Buffalo	775.00	
From Swarthmore College	650.00	
From General Electric College Bowl	500.00	
From Student's Assn. of Haverford College	750.00	
From African-American Institute (for summer studies)	908.00	
From Sundry Gifts	285.00	\$ 43,655.49

For Library and Books

From Library Associates	\$ 826.80	
From Samuel E. Stokes	1,500.00	
From Margaret Conklin	100.00	
From American Library Association	500.00	
From Hugh Borton	200.00	
From John C. Burton	25.00	
From Matzke Royalties	5.56	
From Eleanor Kittridge	250.00	
From Thomas Drake	1,031.25	
From William A. Liddell	50.00	
From Class of 1958 Gift	300.00	
From Shoemaker Foundation	2,500.00	\$ 7,288.61

For Music

From Friends of Music	\$ 856.00	
From College Budget	68.33	\$ 924.33

For Radio Club

From Interest	\$ 81.87	
From adjustment in interest	95.31	\$ 177.18

For Students Loans (Stiles Fund)

Repayments	\$ 1,290.00	
From Alice Berry	100.00	\$ 1,390.00

For Prizes

From Anonymous	100.00	
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For Campus Club

From W. Bancroft	10.00	
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Forward \$1,803,582.74

Forward \$1,803,582.74

Donations other than Funds (continued)

For Japan Society

From Japan Society \$ 1,000.00

For Faculty Projects

From Shell Company	\$ 1,500.00	
From DuPont Company	2,500.00	
From National Institute of Health	37,569.74	
From National Science Foundation	19,900.00	
From Atomic Energy Commission	6,504.00	
From Wm. Steigman	175.00	
From College Budget	814.17	\$ 68,962.91

For Undergraduate Projects

From National Science Foundation 4,360.00

For I.B.M. Laboratory

From National Science Foundation	\$ 40,000.00	
From Bryn Mawr College	16,007.98	
From College Budget	1,282.68	
From Faculty Projects	2,010.57	
From Time sold	65.00	\$ 59,366.23

For Class Anniversary Gifts

From various classes 17,755.25

For Drinker Hall

From various contributions 7,377.50

For Alumni Association

From Alumni Association	\$ 5,631.53	
From Annual Giving (Development Program)	97,600.00	\$ 103,231.53

For Future Projects

Science Hall

From the Corporation Account \$ 444,835.44 \$ 807,396.29

Additions to Funds - Income transferred to Principal

1949 Campaign Salary Fund	\$ 1,120.45	
Rufus M. Jones Fund for Advancement of Teaching	2,236.44	
J. Horace Cook Fund	530.40	
Moses Brown Fund	2,483.29	
A.T. Murray Research Sch. Fund	942.13	
1949 Campaign Scholarship Fund	292.66	
Max Leuchter Scholarship Fund	359.51	
1949 Campaign Library Fund	218.40	
George Peirce Prize Fund	272.32	
Jacob & Eugenie Bucky Memorial Foundation	63.20	
Mathematics Department Prize Fund	76.08	\$ 8,594.88

Reserve for Non-Faculty Pensions (see account)

Pensions	\$ 11,869.29	
Interest	2,916.40	\$ 14,785.69

Death Benefit for Non-Faculty (see account)

Annual appropriation \$ 1,000.00

Forward \$2,635,359.60

Forward		\$2,635,359.60
<u>Faculty Research Fund</u>		
From College Budget	\$ 5,000.00	
From Shell Company	500.00	\$ 5,500.00
<u>Medical Reimbursement Plan</u>		
From College Budget		\$ 5,000.00
<u>Miscellaneous Items to Balance Accounts</u>		
Library Replacements	\$ 2,476.67	
Skating Pond Receipts	1,467.95	
Taxes withheld	207,289.02	
Sales tax collected	2,865.58	
In and Out	2,279.05	
Collected from faculty, students and others for work done	5,114.38	
Student Store - gross sales	23,649.26	
Loans repaid	900.00	
Student Affairs	1,308.25	
Bookstore - Collections	76,373.73	
Accounts Receivable - students	1,141,656.98	
Accounts Receivable - others	247,407.44	
Accounts Receivable - U.S. Government	12,433.10	
Wm. Maui Measey Trust	36,510.66	
Treasurer's In and Out	30,229.92	
Property Maintenance and Replacement	29,655.99	\$1,821,617.98
<u>New Construction</u>		
From Corporation Account		\$ 260,000.00
<u>Items Relating to other Fiscal Years</u>		
Advance receipts for following year	\$ 12,573.74	
Rooms paid in advance	4,662.50	
Expenses for following year	48,834.16	
Prepaid Insurance	12,322.75	
Inventories	13,210.87	
Accounts Payable	186,253.07	\$ 277,857.09
<u>Investments realized</u>		
<u>Consolidated Investments</u>		
<u>Bonds</u> - Government	\$ 406,325.00	
Industrial	102,164.24	
Public Utility	239,495.70	
Railroad	68,585.66	
<u>Preferred Stock</u> - Industrial	108,935.79	
Public Utility	29,150.00	
<u>Common Stock</u> - Banks & Insurance	40,728.76	
Industrial	294,883.57	
Public Utility	40,484.05	
<u>Mortgages</u> - payments made	14,841.79	
<u>College Real Estate</u>	9,320.10	
<u>Miscellaneous</u>	684.78	\$1,355,599.44
<u>Non Consolidated Investments</u>		
<u>Wm. Pyle Philips Investments</u>		
<u>Bonds</u> - Industrial	\$ 111,657.50	
Public Utility	40,390.80	
Railroad	1,200.00	
Forward		\$5,005,334.67

Forward		\$5,005,334.67
<u>Non Consolidated Investments</u> (continued)		
<u>Wm. Pyle Philips Investments</u> (continued)		
Common Stock - Banks & Insurance	\$ 41.38	
Industrial	90,003.30	
Public Utility	65,678.10	\$ 308,971.08
A.T. Murray Research Scholarship Fund		5,000.00
		\$1,669,570.52
<u>Balances September 1, 1961</u>		
Treasurer's Account	91,624.99	
President's Account	63,255.21	\$ 154,880.20
TOTAL		\$6,829,785.39

EXPENDITURES

Expenses of Running the College

Administration

Salaries	\$ 133,252.96	
Supplies & Postage	12,139.45	
Services	11.10	
Telephone & Telegraph	2,723.98	
Replacement & Repair	2,337.14	
Additional Equipment	459.00	
Taxes	2,291.49	
Insurance	639.59	
Traveling	5,453.77	
Public Relations	10,613.17	
Printing	13,562.38	
Entertainment	6,326.20	\$ 189,810.23

Educational Departments

Salaries	\$ 766,363.61	
Supplies & Postage	72,637.25	
Services	21,555.32	
Telephone & Telegraph	4,851.11	
Replacement & Repair	2,486.80	
Taxes	9,227.24	
Insurance	2,305.75	
Traveling	3,192.93	
Not Elsewhere Classified	5,206.64	\$ 887,826.65

Maintenance & Operation

Salaries	\$ 136,246.58	
Supplies	18,765.32	
Contracts	18,910.76	
Water, Heat, Light & Power	61,723.72	
Telephone	572.53	
Replacement & Repair	57,361.70	
Additional Equipment	3,270.62	
Taxes	4,584.80	
Insurance	6,988.86	
Not Elsewhere Classified	514.21	\$ 308,939.10

Kitchen

Salaries	\$ 66,743.43	
Supplies	112,259.39	
Services	13,999.48	
Water, Heat, Light & Power	8,419.21	
Telephone & Telegraph	112.87	
Replacement & Repair	8,216.31	
Major Alterations	1,171.00	

Expenses of Running the College (continued)

Kitchen (continued)

Taxes	\$ 1,297.02	
Insurance	341.01	
Not Elsewhere Classified	10,094.05	\$ 222,653.77

Development

Salaries	\$ 13,895.65	
Supplies	8,443.63	
Services	878.09	
Telephone & Telegraph	520.60	
Taxes	609.06	
Insurance	120.36	
Traveling	717.34	
Not Elsewhere Classified	3,771.60	\$ 28,956.33
		\$1,638,186.08

Miscellaneous Expenses

Treasurer's, Secretary's, Board Legal expenses and services	\$ 13,345.79	
Old Style Pensions	13,333.34	
Working aid to students	9,018.65	
Pensions to Non Faculty and Reserve	11,869.29	
Reserve for Death Benefit for Non Faculty	1,000.00	
Faculty Tuition Grants	3,478.65	
Interest	2,998.27	\$ 55,043.99

Expenditures from Income of Funds

From General Funds

For Scholarships	\$ 68,831.64	
For Prizes	120.00	\$ 68,951.64

From T. Wistar Brown Graduate School

For Fellowships	\$ 2,500.00
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From Scholarship Funds

For Scholarships	\$ 33,680.08	
For Annuities	2,537.50	\$ 36,217.58

From Library Funds

For Books	\$ 16,770.43
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From Special Purposes Funds

For Scholarships	\$ 500.00	
For Prizes	1,229.44	
For Books & Library	413.00	
For Lectures	874.45	
For Religious Education Committee	231.84	
For Plants & Services	1,775.10	
For Strawbridge Observatory	854.04	
For Travel & Conferences	804.27	
For Physical Education	100.00	\$ 6,782.14
		\$ 131,221.79

Expenditures from Principal of Funds

For Old Style Pensions	\$ 10,027.16
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Expenditures from Wm. Pyle Phillips Fund - Special

For Books & Library	\$ 18,632.38	
For Visitors	19,647.74	
For Miscellaneous	9,243.68	\$ 47,523.80

Forward	\$1,882,002.82
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Forward \$1,882,002.82

Expenditures from Donations other than Funds

For Scholarships \$ 45,004.16

For Music 924.33

For Books & Library

Books	\$ 1,067.70	
American Library Association	500.00	
Honoraria	150.00	
Special Salaries	2,016.00	
Miscellaneous	644.56	\$ 4,378.26

For Prizes \$ 100.00

For Japan Society

Books	\$ 250.00	
Lectures	250.00	\$ 500.00

For Loans \$ 2,193.77

For Special Purposes

Printing Booklet	\$ 766.00	
Miscellaneous	274.79	
Mathematics Equipment	74.45	
Faculty Research	500.00	
Chemistry Department	500.00	
Discretionary Fund	110.12	
Faculty Summer Study (correction)	95.31	
Somers Project	665.20	
Conference on Able Students	3,535.32	
Refund to Council on Economics Affairs	801.72	
Chemistry Honoraria & Travel	234.40	\$ 7,557.31

For Non Western Studies

Honorarium	\$ 400.00	
Travel, etc.	74.90	
Books	2,901.60	\$ 3,376.50

For Research & Public Affairs

Travel	\$ 120.00	
Grants	3,014.80	
Faculty Advisors	450.00	\$ 3,584.80

For Class Anniversary Gifts

Class of 1911	\$ 5,844.81	
Class of 1935	7,275.67	\$ 13,120.48

For I. B. M. Laboratory \$ 69,485.09

For Drinker Hall

Cost of Alterations	\$ 15,792.39	
Furnishings	3,442.28	
Dedication & Solicitation	1,766.33	\$ 21,001.00

For Sharpless Renovations

Equipment \$ 7,716.65

For Faculty Projects

Equipment for Physics	\$ 2,976.15
Equipment for Chemistry	2,896.68

Forward \$1,882,002.82

Forward \$1,882,002.82

Expenditures from Donations other than Funds (continued)

For Faculty Projects (continued)

Santer	\$ 8,579.91	
Loewy	6,840.79	
Finger	10,775.37	
Santer & Green	8,432.85	
Refund to A.E.C. from Williams	4,459.88	
Dunathan	1,092.65	
Heath	4,872.97	
Perloe	1,129.09	
Selove	4,608.32	
Green	1,875.07	
Hare	48.89	\$ 58,588.62

For Alumni Association Support

Salaries	\$ 5,631.53	
Support	14,624.59	\$ 20,256.12

For Future Projects

Share of Development costs	\$ 33,496.51	
New Construction	260,000.00	\$ 293,496.51

Faculty Research Fund

Paid for various projects	\$ 2,972.92	
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Medical Reimbursement Plan

Benefits paid	\$ 2,718.58	
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Non Faculty Pensions

Pensions paid	\$ 3,287.79	\$ 560,262.89
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Income transferred to Principal

(see Receipts for items)	\$ 8,594.88	
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Miscellaneous Items to Balance Accounts

Library Replacements	\$ 1,527.69	
Skating Pond - Operations	561.83	
Taxes withheld - paid	205,648.49	
Sales tax - paid	2,773.65	
In and Out	1,944.53	
Paid for work done	5,114.38	
Student Store expenses	22,704.39	
Student Store Building Improvements	4,000.00	
Loans	1,640.67	
Student Affairs	1,468.25	
Bookstore - operations & purchases	80,016.19	
Accounts Receivable from students - charges	1,140,427.78	
Accounts Receivable from others - charges	216,815.58	
Accounts Receivable from U.S. Govt. - charges	6,295.79	
Wm. Maul Measey Trust - student aid applied	42,372.72	
Treasurer's In & Out - transferred to proper accounts	266.01	
Money borrowed temporarily - returned	190,000.00	\$1,923,577.95

New Construction

Science Building (repayments on account of contract)	\$ 164,303.25	
Chemistry Building - Fire Tower	24,372.29	\$ 188,675.54

Forward \$4,563,114.08

Forward		\$4,563,114.08
<u>Items Relating to other Fiscal Years</u>		
Advance receipts applied	\$ 10,663.65	
Rooms paid in advance applied	7,359.08	
Expenses for Following year applied	46,528.93	
Prepaid Insurance	7,484.83	
Accounts Payable	67,973.66	
Inventories	12,676.29	\$ 152,686.44
<u>Investments made or donated</u>		
<u>Consolidated Investments</u>		
Bonds - Government	\$ 100,062.50	
Industrial	359,661.10	
Public Utility	201,210.00	
Foreign	146,875.00	
Preferred Stock - Industrial	113,452.95	
Common Stock - Banks & Insurance	14,287.00	
Industrial	314,544.05	
Mortgages	20,000.00	
College Real Estate	92,384.89	
Miscellaneous	13,000.00	\$1,375,477.49
<u>Non Consolidated Investments</u>		
<u>Wm. Pyle Philips Investments</u>		
Bonds - Industrial	\$ 133,277.50	
Foreign	47,750.00	
Preferred Stock - Industrial	31,370.44	
Common Stock - Banks & Insurance	4.34	
Public Utility	100,713.31	\$ 313,115.59
Philip B. & Louise Spahr Deane Fund	10,735.00	
A. T. Murray Research Scholarship Fund	6,120.00	\$1,705,448.08
<u>Balances June 30, 1962</u>		
Treasurer's Account	\$ 399,326.75	
President's Account	9,210.04	\$ 408,536.79
TOTAL		\$6,829,785.39

REPORT NO. 36 OF "LOAN FUND"

ESTABLISHED IN 1925

Cash Balance on 31 August 1961	\$ 1,740.33
From Corporation of Haverford College	13,000.00
From Public Welfare Foundation	2,000.00
3 Loans repaid during the year	898.70
4 Partial payments on loans during the year	644.72
Interest received during the year	871.14
	<u>\$ 19,154.89</u>

Operating Expenses	
46 Loans made during the year	\$ 19,110.92
Cash on hand 30 June 1962	43.97
Loans outstanding on 30 June 1962	49,061.64
Interest Outstanding 30 June 1962	2,259.31
	<u>\$ 81,364.92</u>

Totals to 30 June 1962

Gifts & Donations	\$ 28,131.14
471 Loans repaid	79,286.35
631 Payments on Loans	32,648.04
Interest Paid Up	20,244.53
Other Sundry Collections	50.02
Advance Received from Corporation of Haverford College	13,000.00
Transferred from Scholarship Fund	11,070.02
From Public Welfare Foundation	2,000.00
	<u>\$186,430.10</u>

Repayments of Gifts and Donations	\$ 21,707.75
Loss on funds & Merion Title & Trust Co.	582.01
Expenses	254.54
Loans Granted	<u>163,841.83</u>
	<u>186,386.13</u>

Cash Balance on hand 30 June 1962	43.97
Outstanding Interest to 30 June 1962	2,259.31
Outstanding Loans to 30 June 1962	49,061.64
	<u>\$ 51,364.92</u>

Report No. 3 of Loan Fund For Freshmen
Established in 1959 by the Class of 1934

Cash balance on hand 31 August 1961	\$ 9,922.83
2 Partial payments on loans	1,135.00
Interest received during the year	24.77
	<u>\$ 11,082.60</u>

Operating Expenses	
15 Loans made during the year	\$ 6,235.00
Cash on hand 30 June 1962	4,847.60
Loans outstanding 30 June 1962	5,300.00
Interest outstanding 30 June 1962	42.48
	<u>\$ 10,190.08</u>

Totals to 30 June 1962

Gifts & Donations	\$ 10,122.83
3 Payments on loans	1,210.00
Interest Paid Up	24.77
	<u>11,357.60</u>
Loans Granted	<u>6,510.00</u>
	<u>4,847.60</u>
Outstanding Interest to 30 June 1962	42.48
Outstanding Loans to 30 June 1962	<u>5,300.00</u>
	<u>\$ 10,190.08</u>

WILLIAM MAUL MEASEY TRUST

This Trust was established by William Maul Measey by Agreement dated June 27th, 1952 and supplementary Agreement dated April 26th, 1956.

The Trust Agreements provide that the income shall be granted as aid to students without restriction as to sex, race or religious affiliation, in selected secondary schools or colleges, who on the basis of character, scholarship and financial situation, merit assistance in continuing their education.

In secondary schools aid is to be given to students who live in the institutions during school terms, and not to day students.

The Capital of the Trust is to be invested solely in common or ordinary corporate shares.

At the request of the donor this is the only statement made of this Trust.

WILLIAM MAUL MEASEY TRUST

FINANCIAL STATEMENT

9/1/61 — 6/30/62

Book Value of Trust 9/1/61	\$1,219,318.04
Increase in Trust by realized capital gains	<u>28,182.95</u>
Book Value of Trust 6/30/62 (less than market value)	<u>\$1,247,500.99</u>

CASH STATEMENT OF RECEIPTS & EXPENDITURES

Principal

Cash Balance 9/1/61	\$ 3,086.06
Investments realized	<u>99,310.07</u>
	<u>\$ 102,396.13</u>
Investments made	\$ 97,746.04
Cash Balance 6/30/62	<u>4,650.09</u>
	<u>\$ 102,396.13</u>

Income

Receipts, disbursements and reserves

<u>Income</u> from investments and reserves — 9/1/60 to 8/31/61	<u>\$ 76,071.17</u>
<u>Disbursements</u> 9/1/61 to 6/30/62	
To Haverford College for administration of Trust	\$ 7,302.13
To Haverford College for aid to 63 students	36,510.66
To other Colleges for aid to 2 students	1,450.00
To secondary schools for aid to 58 students	27,600.00
Reserve — 6/30/62 available to other Colleges and secondary schools	<u>3,208.38</u>
	<u>\$ 76,071.17</u>

In order that the income available from the Trust for aid to students may be known at the beginning of each fiscal year, such income is accumulated and not awarded nor disbursed until the following year.

The net income during the fiscal year from 9/1/61 to 6/30/62 amounted to \$71,155.27, of which under the terms of the Trust, The Corporation of Haverford College is entitled 10% expenses of administration.

Lawrence E. Brown & Company

ESTABLISHED 1912

Certified Public Accountants

1917 FIDELITY-PHILADELPHIA TRUST BUILDING

PHILADELPHIA

September 25, 1962

To the Board of Managers
The Corporation of Haverford College
Haverford, Pennsylvania

Gentlemen:

We have examined the financial statement of the William Maul Measey Trust as of June 30, 1962, and the related statement of cash receipts and expenditures for the ten months period then ended. Our examination was made in accordance with generally accepted auditing standards, and accordingly included such tests of the accounting records and such other auditing procedures as we considered necessary in the circumstances.

In our opinion, the accompanying financial statement and the related statement of cash receipts and expenditures present fairly the financial position of the William Maul Measey Trust at June 30, 1962 and the results of its cash receipts and expenditures for the ten months period then ended, in conformity with cash basis accounting principles applied on a basis consistent with that of the preceding year.

Very truly yours,

Lawrence E. Brown

Certified Public Accountants

TRUST FUNDS

W. PERCY SIMPSON TRUST

Provident Trust Co. and William J. Clark Trustees

This perpetual Trust was established under the will of W. Percy Simpson, Class of 1890, who died Second Month 19, 1938. The will provides that one fourth of the net income from the residuary estate, after the death of his widow (who died in 1940) and of his son (who died in 1946), shall go to two grandchildren, and of the remaining three quarters one tenth shall go to Haverford College. Thus Haverford's share of the income now is 3/40th. The income comes partly from securities but largely from Texas Oil Royalties and rentals. Of the present income as estimated by the Trustees, Haverford's share is about \$1,875 per annum.

The will further provides "without imposing any obligation upon Haverford College, I recommend to it the advisability of expending the moneys which shall from time to time come to it under this will or so much thereof as may be required, for the examination and analysis of applicants for admission to the College with respect to their mental, physical and general qualifications, and of students therein for the purpose of determining the field of activity best suited to the individual."

The will further provides that whenever a vacancy shall occur by the death or resignation or otherwise of the individual Trustee, the selecting of a new Trustee shall be done by the governing body of Haverford College, and that if the College fails to perform this duty, the payment of further income to it shall terminate.

HENRY C. BROWN TRUST

Pennsylvania Co. for Banking and Trusts, Trustee

Founded Eighth Month 18, 1948, by bequest of estimated value of \$183,000 from Henry C. Brown, of Philadelphia, ex Class of 1866, to the Pennsylvania Co., in trust for benefit of Haverford College. The will provides that the income is to be used for current expenses. The will further provides that "the said College shall have power in its discretion to use a portion of the principal of the said trust estate not exceeding in any one year twenty per cent of the original fund for permanent purposes such as buildings, books and equipment proper for conducting the work of instruction and education."

NATHAN BRANSON HILL TRUST

Founded in 1904 by deposit with First National Bank and Trust Company of Minneapolis, Minn., Trust, of a paid up life insurance policy for \$5,000 by Samuel Hill, '78, being in memory of his father, Nathan Branson Hill. The income is to be used to aid in the maintenance of Haverford College so long as it shall remain under the auspices of the Society of Friends. In 1931 Samuel Hill died and the policy realized \$5,039. The Trust is to remain in the care of the above named bank, now known as First National Bank of Minneapolis, until twenty-one years after the death of Samuel Hill's son, James N. Hill, who is still alive. At that time, the Trust is to terminate and the principal is to be vested in Haverford College absolutely.

MARY FULLER COOK TRUST

Girard Trust Corn Exchange Bank, Trustee Under Deed, Dated July 29, 1948

This perpetual trust created by deed of Mary Fuller Cook, who died April 25, 1955, widow of J. Horace Cook, Class of 1881, became operative in so far as the college is concerned, July 14, 1957, upon death of a life tenant.

The income from this trust is to be added to that from J. Horace Cook Fund "subject to the provisions of that Fund, but with the understanding that if, in the judgment and discretion of the authorities of the college, such income shall be needed for purposes of the college other than scholarships, the college shall be free to so use it."

ENDOWMENT FUNDS

FUNDS FOR GENERAL PURPOSES

GENERAL ENDOWMENT FUND

Founded in 1847 with subscriptions of \$50,000 by a number of Friends. Additions were made as follows: 1868, from an anonymous source, \$5,000; 1869, bequest of Ann Haines to increase the compensation of professors, \$2,670; 1870, bequest of Richard D. Wood, \$18,682.96; 1872, from William Evans, \$1,000; 1874, from executors of Jesse George, deceased, \$5,000; 1880, bequest of Dr. Joseph W. Taylor, \$5,000; 1901, legacy of Ann Williams, \$2,425.50; 1941, from children of Aubrey C. Dickson in his memory, \$300; 1954, Maria Luisa Gildemeister, \$500; 1955, Estate of Elizabeth S. Dillinger, through Bessie Kohne Schenck, \$3,000. Present book value, **\$106,302.64** The income is used for salaries and scholarships.

JOHN FARNUM MEMORIAL FUND

Founded in 1878 by the heirs of John Farnum by gift of \$25,000 as a memorial to him. Added to in 1899 by legacy of \$10,000 from Elizabeth H. Farnum, widow of John Farnum. The income only is to be used to endow a "professorship of some practical science or literature." The chair of chemistry was designated as the "John Farnum Professor of Chemistry." The principal is held in the name of three Trustees for the benefit of The Corporation of Haverford College. Present book value, **\$31,741.22.**

JOHN M. WHITALL FUND

Founded in 1880 by bequest of \$10,000 from John M. Whittall, Sr. Present book value, **\$10,640.09.** The bequest is upon the condition that the art of drawing, especially mechanical drawing, shall be taught, and the income only is to be used, and for this purpose.

DAVID SCULL FUND

Founded in 1885 by bequest of \$40,000 from David Scull, Sr. Present book value, **\$44,806.59.** The income only is to be used to endow a professorship. The chair of biology was designated as the "David Scull Professor of Biology."

EDWARD L. SCULL FUND

Founded in 1865 by net bequest of \$9,500 from Edward L. Scull, '64. The legacy was added to the General Endowment Fund, but in 1888 it was set apart as a separate fund. Present book value, **\$11,364.35.** The income only is to be used. The bequest is free from any legally binding conditions, but it was the testator's desire "that some judicious means shall be employed by the Managers to further advise students on the subjects of diet and reading."

WISTAR MORRIS MEMORIAL FUND

Founded in 1892 by gift of \$5,000 in bonds by Mary Morris, widow of Wistar Morris, as a memorial to him. There are no restrictions. The income is used for general college purposes. Present book value, **\$5,144.24.**

ISRAEL FRANKLIN WHITALL FUND

Founded in 1896 by net legacy of \$9,667.83 from Israel Franklin Whittall. Present book value, **\$10,781.94.** The income only is used for the payment of professors or teachers.

JACOB P. JONES ENDOWMENT FUND

Founded in 1897 by residuary legacy of Jacob P. Jones. This amounted when received to par value of \$279,021.60; book value, \$332,301.60, and sundry real estate. The real estate has all been sold, netting \$847,709.92. Present book value, \$1,301,375.34. The income only is to be used for general college purposes, and out of said income there shall be admitted a portion at least of the students either free of charge or at reduced rates. In accordance with this provision, about \$7,500 per annum is used for scholarships, and the balance of income for general college purposes. Jacob P. Jones will contains the following: "My hope is that under the blessing and favor of God there will come from this source a revenue which shall be productive of growth and vigor in the institution as well as help at this critical period of their lives to many deserving young men of slender patrimony."

JOHN FARNUM BROWN FUND FOR THE STUDY OF THE BIBLE, BIBLICAL HISTORY AND LITERATURE, PHILOSOPHY, AND KINDRED SUBJECTS

Founded in 1900 by the late T. Wistar Brown as a memorial to his son, John Farnum Brown, '93. The original gift was in cash and securities of a par value of \$43,000, shortly afterwards increased by further gifts of \$15,000. The founder made further gifts of cash and securities until 1915, the total being \$19,381 cash and \$48,500 par of securities with book value of \$41,490. His total gifts therefore had a book value of \$234,970.81. Of this, \$5,000 donated in 1910 is for endowment of prizes in Biblical History and in Philosophy. A portion of the income was capitalized each year to keep intact the full value of the fund until 1940 when this fund was included in the Consolidation of funds. Present book value, \$275,899.76. The income only is to be used for the purpose of making provision for the regular study of the Bible and Biblical History and Literature, and as way opens for religious teaching. In 1910, the scope and title of the Fund were enlarged to include "and Philosophy and Kindred Subjects." Income up to \$200 may be used for prizes in Biblical Literature and Philosophy.

CLEMENTINE COPE ENDOWMENT FUND

Founded in 1904 by bequest of \$25,000 from Clementine Cope. There are no restrictions. The income is used for general college purposes. Present book value, \$21,493.67.

JOSEPH E. GILLINGHAM FUND

Founded in 1907 by bequest of \$50,000 from Joseph E. Gillingham. The testator said, "I request, but I do not direct, that part of the income of this legacy may be used for free scholarships for meritorious students." In accordance with this request, \$800 was until recently appropriated annually from the income for scholarships, the balance being used for general college purposes. Present book value, \$42,394.72.

ELIZABETH H. FARNUM FUND

Founded in 1891. The original principal of this fund, amounting to \$10,000, was held by the Provident Trust Co. of Philadelphia under a deed of trust created by Elizabeth H. Farnum of Philadelphia. The income was first paid to a life tenant until 1914, when income first accrued to the College "for the payment of the salaries of teachers and professors by the said College employed." Under date of Ninth Month 18, 1944, upon petition of the Trustee, concurred in by the College, the Court of Common Pleas awarded the principal to the Corporation of Haverford College "to be administered by it for the purposes set forth in the deed of trust in accordance with the non-profit corporation law." Present book value, \$9,160.24

JAMES R. MAGEE FUND

Founded in 1915 by bequest of \$10,000 from James R. Magee, '59, and added to in 1925, 1926, 1928, 1929, 1930, 1931, 1932, 1936, 1937, 1940, and 1944 by additional payments of \$29,182.84, \$1,694.84, \$499.31, \$499.68, \$488.85, \$207.33, \$400, \$250, \$100, \$449.89, \$175.00, 197.99 (1947-48) and \$7.40 (1948-49), under his legacy. Present book value, \$45,035.96. There are no restrictions except that the income only is to be used. This is applied to general college purposes.

ALBERT K. SMILEY FUND

Founded in 1915 by gift of \$1,000 from Daniel Smiley, '78, as a memorial to his brother, Albert K. Smiley, '49, and added to in 1924 and 1926. Present book value, \$1,500.00. There are no restrictions except that preference was expressed that the income only should be used. This is applied to general college purposes.

THE HINCHMAN ASTRONOMICAL FUND

Founded in 1917 by bequest of \$10,000 par value securities from Charles S. Hinchman. Increased in 1928, 1929, 1930, 1931, 1932, 1933, 1934, 1935, and 1936 by donations of \$28,926.95 from a friend of the College. Present book value, \$39,515.48. The income only to be used "to increase the salary of the astronomical professorship so as to provide a suitable instructor in the ennobling study of the heavens."

WALTER D. AND EDITH M. L. SCULL FUND

Founded in 1918 by bequest of Walter D. Scull, whose death followed shortly after the death of his sister, Edith M. L. Scull. Each left his or her estate to the other, unless predeceased; in this latter case both American estates were left to Haverford College. Both were children of Gideon D. Scull, '43, and resided in England. Income accumulated before the receipt of the fund by the College amounted to \$16,887.66, of which \$15,078.51 was added to the

principal of the fund. Present book value, \$174,560.31. The fund was created to establish a professorship of modern English constitutional history, and the chair has been designated as the Walter D. and Edith M. L. Scull Professorship of History.

ALBIN GARRETT MEMORIAL FUND

Founded in 1919 by legacy of \$25,000 from Mary Hickman Garrett, in memory of her late husband, Albin Garret, '64. Present book value, \$26,771.00. There are no restrictions. The income is used for general college purposes.

ARNOLD CHASE SCATTERGOOD MEMORIAL FUND

Founded in 1919 by gift of \$30,000 in securities from Maria Chase Scattergood in memory of her son, Arnold Chase Scattergood, of the Class of 1919, who died in his Junior year. The income only is to be used toward the payment of professors salaries. Present book value, \$24,381.59.

FRANCIS B. GUMMERE MEMORIAL FUND

Founded in 1920. This fund was started by a gift of \$25,000 from the late Miss Emily H. Bourne, of New York, conditional upon the raising of \$100,000 additional for an endowment of the Chair of English Literature in memory of her friend, Professor Francis Barton Gummere. A committee of alumni, consisting of J. Stoddell Stokes, '89, chairman; E. R. Tatnall, '07, treasurer; Hans Froelicher, '12, secretary; Charles J. Rhoads, '93; Alfred M. Collins, '97; Winthrop Sargent, Jr., '08, and Parker S. Williams, '94, working with President Comfort, organized a comprehensive campaign among the alumni and friends of the College to raise \$375,000 for this purpose and for increase of professors salaries; the first \$100,000 of unspecified gifts was used to complete the Francis B. Gummere Memorial Fund to at least \$125,000, and the balance comprised the Isaac Sharpless Memorial Fund. Total, book value, \$125,569.51.

ISAAC SHARPLESS MEMORIAL FUND

Founded in 1920. The alumni of the College conducted during 1920 a campaign for \$375,000 additional endowment for the College to make possible additional salaries to the professors. Appeal was made to found two new funds, the Francis B. Gummere Memorial Fund and the Isaac Sharpless Memorial Fund. The funds received, except where otherwise specified, were first applied to the completion of the former up to \$125,000 (see above). Specified gifts and donations thereafter received, were then applied to the Isaac Sharpless Memorial Fund. The income only is to be used for salaries of professors. Total book value, \$218,728.43.

GENERAL EDUCATION BOARD FUND

The General Education Board of New York appropriated \$125,000 in 1920 to the campaign for increase of endowment when the Francis B. Gummere Memorial Fund and the Isaac Sharpless Memorial Fund, totaling \$375,000, were raised. Interest at five per cent was paid on the full sum for three years, and the \$125,000 in full payment was completed in 1926-1927. Total book value, \$126,076.83.

HAVERFORD IMPROVEMENT FUND AND CONSOLIDATED CAMPUS HOUSES ACCOUNT

Founded in 1922 to hold the Corporation's undivided share in College Lane land and eight houses. This property was turned over to the Corporation free of debt on Third Month 17, 1922, and with same the then debt of the Corporation amounting to \$155,942.15 was liquidated. The fund started with an

undivided interest of \$19,000. There was added in 1922, \$9,000; and in 1925, \$2,000. In 1926, \$5,000 of this fund was sold and the proceeds were appropriated for the alterations to Roberts Hall. The balance of this fund, \$25,000, was also used in 1927 for the same purpose. The income was used for general college purposes.

The College Lane land was purchased in 1886 for the benefit of the College by David Scull, Justus C. Strawbridge, Richard Wood and Francis Stokes, Managers of the College and now all deceased. With contributions raised by them and by mortgages on which they went on the bonds, funds were raised to build six dwelling houses, and two houses were built by the Corporation itself. From the income of the houses the debt against the properties was gradually reduced until it was entirely liquidated in 1919. The net income from 1919 until 1922, when the property was turned over to the Corporation, was applied toward the reduction of the Corporation's debt.

As of Ninth Month 1, 1944, all of these eight College Lane houses, together with seven houses which had been bought for the College and formed a part of the College debt, and nine other Campus houses which were owned free of debt, were consolidated at a combined valuation of \$281,331.70 into a new Campus Houses Account held by Consolidated Investment Account. There have been additional investments in other College houses from time to time and the present book value is \$628,760.67. Amortization of 1½% is to be applied to the annual reduction of the investment.

WILLIAM PENN FOUNDATION

Started in 1926 toward a fund of \$120,000 to establish a chair or lectureship in Political Science and International Relations. This fund forms a part of the Centenary program to raise \$1,000,000. This foundation is to be devoted, at the discretion of the Managers, to providing adequate undergraduate instruction in the theory and practice of our own and other governments, in the history of past attempts to secure international agreements and in the methods by which good international understanding may be promoted and maintained. Book value to date, \$102,067.43.

WALTER CARROLL BRINTON MEMORIAL FUND

Founded in 1920 by gift of \$5,000 by the family of Walter Carroll Brinton, Class of 1915, who died in France Twelfth Month 8, 1918, while engaged in Friends' Reconstruction Work. The fund sustained the Walter Carroll Brinton Scholarship until 1926-1927. It was then increased \$6,000 by further gifts of the founders, and at their request the purpose was changed from a scholarship fund to form a separately named fund of the William Penn Foundation, with its income to be used for the same objects. Present book value, \$14,125.79.

CORPORATION FUND

Founded in 1928 by setting aside \$70,000 of proceeds from sale of 5.811 acres of land on the southern boundary and at the southeastern corner of the College farm. In 1937, the fund was increased \$8,810, being proceeds of the sale of 1.762 acres of land to the Philadelphia Skating Club and Humane Society for their new ice skating rink. In 1951 the fund was increased by \$4,994.50, being proceeds of the sale of .284 acres of land to Philadelphia Electric Co. In 1953-54 the cost of renovation of Philips wing in the Library was taken from this fund (\$60,175.56). Present book value, \$25,128.94. The fund is invested and the income used for general college purposes, until otherwise directed by the Managers.

ELIZABETH J. SHORTRIDGE FUND

Founded 12 Month 22, 1930, by bequest from Elizabeth J. Shortridge, without restrictions. Until otherwise directed by the Managers, the income only is used for general purposes. Present book value, \$10,000.00.

HOWARD COMFORT MEMORIAL FUND

Founded in 1934 by gift of \$1,000 from President William Wistar Comfort in memory of his father, Howard Comfort, Class of 1870, who was a Manager from 1880 until his death in 1912, and Secretary of the Board of Managers from 1884 until 1908.

The fund was added to by further gifts from the same donor of \$1,000 in 1935, \$1,000 in 1936, \$2,000 in 1937 and \$500 in 1949. The income only is to be used for general purposes. Present book value \$5,527.31.

ELLEN W. LONGSTRETH FUND

This fund was established in 1935 by a bequest of \$20,000 and her residuary estate from Ellen W. Longstreth, a Friend, belonging to Haverford Meeting and living in Bryn Mawr. The principal and income are both unrestricted. This bequest and residue of \$84,416.28, together with further realization on residuary assets and an additional amount received upon the death of a life tenant of a trust, made a total of \$117,520.19. A part of this fund was used for the 1953-56 Building Program. Present book value is \$67,520.19.

ALBERT L. BAILY FUND

Founded in 1936 by an unrestricted bequest of \$5,000 from Albert L. Baily, '78. The income is used for general purposes. Present book value, \$5,000.00.

ELIZABETH B. WISTAR WARNER FUND

Founded First Month 16, 1937, by unrestricted bequest of \$4,950 from Elizabeth B. Wistar Warner, of Germantown, widow of George M. Warner, '73. The income is used for general purposes. Present book value \$4,950.00.

T. ALLEN HILLES BEQUEST

Founded First Month 19, 1937, by receipt of the proceeds of a trust fund created in 1935 by T. Allen Hilles, class of 1870, formerly of Wilmington, Delaware, recently of Glen Mills, Pa., who died 11th Month 15, 1935. The amount received in stocks and cash was \$285,000. Proceeds of mortgages of \$7,460.94 in 1938, and final cash from executor in 1939 of \$1,603.37 brought the gross total to \$294,064.31. From this was deducted in 1939 the final settlement of taxes and fees totalling \$13,300, thus making the final net bequest \$280,764.31. Accumulated income of \$12,489.77 was also received on First Month 19, 1937. In the trust created by the donor in 1935 he provided: "The gift to Haverford College shall constitute a fund to be known as 'The Hilles Bequest,' and the income shall be used for repair, upkeep and improvement of the building which I have given to Haverford College known as the Hilles Laboratory of Applied Science of Haverford College. My purpose in making this gift is primarily to relieve the Corporation of Haverford College from any additional expense on account of the erection of the building which I have given

them, and the accompanying expansion of its educational activities, but whenever and if the Board of Managers or other governing body of the College shall determine it to be for the best interest of the College to devote the whole or any part of the income of the fund to uses other than those above specified such income may be applied to such uses and in such manner as the Board of Managers or other governing body may in its absolute discretion determine." Present book value, \$280,764.31.

LEONARD L. GREIF, JR. AND ROGER L. GREIF FUND

Founded Ninth Month 29, 1937, by a gift of \$1,000 from Leonard L. Greif, '34, and Roger L. Greif, '37, of Baltimore. The gift was unrestricted, but the Managers have set aside this fund as endowment for general purposes, the income only to be used, until otherwise determined by them. Further gifts were received from Leonard L. Greif, Jr. in part through the 1949 Campaign. The present book value is \$7,000.

EDWARD M. WISTAR FUND

Founded First Month 9, 1938, by gift of \$2,500 from Edward M. Wistar, '72, for endowment, the income only to be used for general purposes. Present book value, \$2,500.00.

MORRIS E. LEEDS FUND

Founded Sixth Month 26, 1941, by a gift of shares of Leeds & Northrup stock, this fund was added to by further gifts of that company's stock during the lifetime of Morris Leeds. Upon his death he bequeathed to the college three-quarters of his entire residuary estate which bequest like the gifts made in his life was entirely without restrictions either as to principal or income.

The fund was ordered by the Managers until otherwise directed to be included among the funds for general purposes. After an appropriation for the 1953-56 Building Program, it has a present book value of \$1,429,792.09.

J. HENRY SCATTERGOOD FUND

Founded Tenth Month, 1941, by donations totaling \$1,660, made by members of the Board of Managers in recognition of the services for 25 years of J. Henry Scattergood, '96, as Treasurer of the Corporation of Haverford College. A further gift of \$340 was made in 1943-44, \$200.00 in 1949-50, \$1,000 in 1950-51 (through 1949 campaign) \$1,000 in 1951-52 (through 1949 campaign), \$1,000 in 1952-53 (through 1949 campaign), and \$6,800.00 in 1953-54 (through 1949 campaign). Present book value, \$12,000.00.

The income of this fund is to be used in the field of International Relations and to be at the disposal of the President of the College and the William Penn Professor holding the Chair in Political Science and International Relations. If the income in any year is not used for the special purposes as stated, in the discretion of the President, it may be used for general purposes. It is further provided that after Tenth Month 1, 1951 the use of the fund for other purposes, both as to principal and income, shall be subject to the direction of the Board of Managers of Haverford College.

PARKER S. WILLIAMS FUND

Founded Tenth Month 1, 1947, by unrestricted bequest of \$100,000 under the will of Parker S. Williams, Class of 1894, of Villanova, Pa., who died in 1942. The actual amount received from the executors was \$103,993.26, due to the increased value of certain investments, which were held, instead of being converted, under an agreement with the College. Income was paid to the College from time to time until the receipt of the bequest.

GILBERT C. FRY FUND

Founded Fourth Month 2, 1948, by an unrestricted gift of \$1,000 U. S. Treasury Bond from Gilbert C. Fry, of Germantown, Philadelphia, Class of 1923, in remembrance of his 25th anniversary of graduation. A new fund was set up and until otherwise ordered by the Managers, the income only will be used for general purposes. Further gift of \$500.00 was made in 1949-50, \$1,000 was made in 1950-51 (through 1949 campaign), \$1,000 1951-52, and \$1,500 in 1952-53, 1960-61, \$1,581.02. Present book value \$6,581.02

DANIEL B. BOYER FUND

Founded Third Month 3, 1948, with an initial gift of \$2,500 in stock from Daniel B. Boyer, Boyertown, Pa., Class of 1911. The donor's letter states: "It is my desire that the income from the stock be allocated for faculty use. If present reduced College income is not sufficient to cover current faculty needs, the Board of Managers should not hesitate to sell the shares and apply the proceeds for that purpose." A new fund was set up, and until otherwise ordered by the Managers, the income only will be used for faculty salaries.

MARRIOTT C. MORRIS FUND

Founded Ninth Month 1, 1948, by unrestricted bequest of \$10,000 from Marriott C. Morris, Class of 1885, of Germantown.

The fund is classified among unrestricted funds for General Purposes, and is included in Consolidated Investment Account. Book value, \$10,000.

1949 CAMPAIGN SALARY FUND

Founded Sept. 1, 1950 by a transfer of \$107,800.00 from the receipts of the 1949 Haverford Campaign for additional endowment.

The income is to be used to augment faculty salaries and for increasing, where necessary, the teaching staff to make possible the desired ratio between faculty and students.

Until otherwise ordered by the Board, 10% of the income is to be capitalized each year; provided that this shall not reduce the yield from the fund below 4%.

A portion of the Capital of this fund may be expanded at the discretion of the Board of Managers in accordance with the policy stated in the Campaign Appeal. Present book value, \$193,106.20

THE RUFUS M. JONES FUND FOR ADVANCEMENT OF TEACHING

Founded Sept. 1, 1950 by a transfer of \$235,000.00 from the receipts of the 1949 Haverford Campaign for additional endowment.

The income is to be used to stimulate professional growth, encourage desirable research, make possible short-term absences for study or to render special service, and to raise professors' salaries.

Until otherwise ordered by the Board, 10% of the income is to be capitalized each year, provided that this shall not reduce the yield from the fund below 4%.

A portion of the Capital of this fund may be expended at the discretion of the Board of Managers in accordance with the policy stated in the Campaign Appeal. Present book value, \$381,679.80

WILLIAM PYLE PHILIPS FUND

Founded on the death of William Pyle Philips, class of 1902, of New York City, N. Y. on December 18, 1950 by the bequest of his entire residuary estate as an endowment fund in perpetuity, the principal is to be invested in such securities as the Board of Managers shall deem advisable "but at least $\frac{1}{2}$ thereof to be invested in diversified common stocks."

The income is "to be applied from time to time to such purposes as said Board of Managers in their discretion shall deem advisable, provided, however, that approximately one-half ($\frac{1}{2}$) of such income be applied to one or more of the following purposes:

"(a) Purchase for the Treasure Room of the College Library of rare books which the College would not otherwise buy and comparable with the books mentioned in *Article Third* hereof;

"(b) Bringing to the College distinguished scientists or statesmen for a lecture or series of lectures, for courses of instruction, for seminars, for research or for other academic purposes; and

"(c) Subscription to important learned periodicals, domestic and foreign, of the various humanities and sciences, purchases of back numbers of such periodicals and binding of the same for permanent preservation in the College Library." Present book value, \$2,526,902.15

WILLIAM B. BELL FUND

Founded in Ninth Month 1951 by partial distribution of \$19,444.44 on account of an unrestricted bequest to the College of William B. Bell, Class of 1900, of New York, and in 1953-54 a final distribution of \$14,436.47.

The fund is to be used for General Purposes and is included in Consolidated Investments Account. Present book value is \$36,178.02.

DR. THOMAS WISTAR FUND

Founded in 1952, upon the termination of a Trust by the bequest of the residuary estate of Dr. Thomas Wistar, class of 1858, the funds are to be kept invested and the net income used for such purposes either general or special as the Managers of said College may direct. Present book value is \$25,068.15.

THE CHARLES McCAUL FUND

Founded in 1953 by a bequest of 1/8th of the residuary estate of Mary N. Weatherly. The fund is to be known as The Charles McCaul Fund, in memory of her step-father. The income only shall be spent.

The use of the fund is unrestricted but it is the hope of the Testatrix that some portion of the income may be used to provide one or more scholarships, and that the rest of the income may be used to provide *sound and conservative instruction* in the Social Sciences.

It is my preference that such scholarships be awarded to students who show especial interest in the field of religion and the Social Sciences, but I do not specifically limit the use of the Fund, having confidence in Haverford College to teach high ideals." The present book value of this Fund is \$37,187.20.

ISAAC & LYDIA COPE SHARPLESS FUND

Founded in 1953 by bequest of \$5,000.00 from Lydia Cope Sharpless, who died Sept. 23, 1952, "in memory of my husband, Isaac Sharpless." The fund is without restriction, and has a present book value of \$5,000.00.

CLASS OF 1937 FUND

Founded Fifth Month 16, 1955 by a gift of \$4,500 from Margaret A. Lester and John A. Lester '96, in appreciation of the benefits rendered to their son, John A. Lester, Jr. '37.

The fund is unrestricted and has a present book value of \$4,500.

J. HORACE COOK FUND

"Founded in 1955 by a bequest under the will of J. Horace Cook, Class of 1881, who died March 25, 1939, this bequest became effective on the death of Mary Fuller Cook, his widow. This Fund is "to be kept . . . and the income to be used for the needs of the College as it shall see fit, but preferably for a scholarship one to be awarded each year so there will be a student in each class receiving his tuition from this fund." "Ten per cent of the net income for each and every year shall be added to principal of this Fund." Present book value, \$126,514.43

THE FORD FOUNDATION ENDOWMENT FUND

The Ford Foundation made grants to the college on July 1, 1956 and June 27, 1957, for an Endowment Fund totaling \$345,000.

In accordance with the terms of the gift "Until July 1, 1966, the principal of the grant shall be held by the grantee institution only as endowment, and the income from such grant shall be used only to increase faculty salaries. After July 1, 1966, principal and income of the grant may be used for any educational purposes of the institution."

THE FORD FOUNDATION ACCOMPLISHMENT FUND

The Ford Foundation also made on July 1, 1956 and June 27, 1957, two payments for an accomplishment grant in the amount of \$214,000. This grant was made in recognition of the fact the college had, with certain other institutions to whom similar grants were made, taken the lead in their regions in improving the status and compensation of American College Teachers,

"The purpose of the grant shall be to advance the academic program of the grantee institution either by increases in faculty salaries or by meeting other pressing academic needs. The grant may be spent in whole or in part, from time to time, as the grantee institution may determine."

THOMAS HARVEY HAINES AND HELEN HAGUE HAINES FUND

Founded in 1956 by a bequest of one-third of the residuary estate of Helen Hague Haines, this fund was given in memory of Thomas Harvey Haines, class of 1896. The proceeds are to be used "to promote understanding among men by research, training and teaching in the field of human relations." Present book value is \$12,426.18.

EMILY BISHOP HARVEY FUND

Founded in 1958 by a bequest of \$10,000 from Emily Bishop Harvey of Radnor, Penna., patron and friend of the college, who died November 12, 1957, this fund is without restrictions and is to be used for the general purposes of the college. Book value is \$10,000.

CLASS OF 1933 TWENTY-FIFTH ANNIVERSARY FUND

Founded in 1958 by initial gift of \$6,477.50 from the Class at its 25th Reunion, the income is to be used for general college purposes at the discretion of the Board of Managers. However, the Board may use the principal, if conditions unforeseen at the time of establishment of the fund made it advisable. Present book value \$8,932.50.

JOHN E. HUME FUND

Founded in 1959, by a bequest of one-third of the residuary estate of John E. Hume, Class of 1897, the fund is unrestricted and is to be used for General Purposes. Present book value \$35,828.17.

FREDERIC H. STRAWBRIDGE FUND

This gift was left to the college by Frederic H. Strawbridge, Class of 1887, upon his death in 1958. The fund represents the culmination of a long series of gifts made during his fifty-one years as a member of the Board of Managers. It is unrestricted, and has a present book value of \$10,000.

WILLIAM H. COLLINS FUND

Established by the bequest of the residuary estate of Julia Cope Collins, who died August 20, 1959, and who was long a devoted friend and neighbor of the College, and widow of William H. Collins, Class of 1881, for many years head of the College Building and Grounds Division, the use of this fund is to be left to "the judgment of the governing body of the College." Julia Collins states in her will that "if the income from this Fund, or some part of it, could be used for scholarships for deserving students, I should approve of such use but . . . I do not restrict the use of the Fund for this purpose." The present book value is \$185,110.15.

MARY FRANCES NUNNS FUND

Founded in 1960 by a bequest of \$25,000 from Mary Frances Nunn, the income is to be used for scholarships unless otherwise directed by the Board of Managers, they being empowered by the will to use the income for scholarships or general purposes. The present book value is \$25,000.

ELI NICHOLS FUND

This fund, created under the will of Eli Nichols, Class of 1912, representing one-half of his residuary estate, came into possession of the College in January 1961 on the death of Anna E. Nichols.

By his will the fund is left to Haverford College "to be added to the General Endowment Funds of said College or to be used by the Trustees of said College as in their judgment and discretion may be for the best interest of said College."

The present book value of the fund is \$346,106.56.

WILLIAM GIBBONS RHOADS FUND

This fund was established in 1961, by a bequest of \$25,000 from William Gibbons Rhoads, Class of 1897, who died December 10, 1960.

His will directed that the "income from the aforesaid gift to the BOARD OF MANAGERS OF HAVERFORD COLLEGE shall be used for visits to the College by distinguished persons in the field of the Humanities and Social Sciences. These visits may be for a lecture, a series of lectures, for purposes of instruction, for seminars for research, or for other academic purposes. However, the income and/or principal of the fund may, at the discretion of the Board of Managers, be used for any purpose which they may consider to be of more value to the College, or the fund may be merged with the General Endowment of the College and the income or principal or both used toward the general expenses of the College." The present book value is \$25,000.

PHILIP B. AND LOUISE SPAHR DEANE FUND

"This fund was established in 1961 by gifts of \$10,735, from Philip B. Deane, Class of 1911 and his wife, Louise Spahr Deane of York, Pennsylvania, in gratitude for the scholarship help and educational opportunities made available to Philip Deane during his years at Haverford.

The income from this fund, on their death, is to be used for the general purposes of the College." Present book value \$10,735.

FUND FOR GRADUATE SCHOOL MOSES BROWN FUND

A trust founded by T. Wistar Brown, in 1906, as a memorial to his father, Moses Brown. Transferred to the College in 1916 after his death, having at that time a par value of \$372,821.91 and book value of \$318,823.56. Present book value, \$394,945.58 The fund was created to establish a graduate course in religious study in harmony with and supplementary to the teaching and study provided for by the John Farnum Brown Fund. The income only is to be used; at least ten per cent of the total income must be capitalized each year. The unused income, if any, is likewise capitalized at the close of each fiscal year. The graduate school supported by the Moses Brown Fund was designated "The Thomas Wistar Brown Graduate School." In 1927 the former separate school was discontinued and eight graduate scholarships were created.

In 1937-1938, arrangements were first made for cooperation in courses with Pendel Hill, a school for religious education under the care of Friends, located at Wallingford, Pa.

FUNDS FOR INFIRMARY INFIRMARY ENDOWMENT FUND

Founded in 1911 from subscriptions totaling \$9,072.55, raised among alumni and friends of the College. The income is used toward the expenses of the Morris Infirmary. Present book value, \$9,653.44.

JOHN W. PINKHAM FUND

Founded in 1911 by legacy of \$5,000 from Dr. John W. Pinkham, '60, being transmitted by gift from his widow, Cornelia F. Pinkham. There are no binding conditions, but as she expressed an interest in the Morris Infirmary, then building, the Board of Managers directed that the income of this fund should be used in the support and maintenance of the Infirmary. Present book value, \$5,059.50.

FUND FOR HAVERFORD UNION

HAVERFORD UNION FUND

Founded in 1920 by gift from the former Haverford Union Members of \$1,000 par value of bond at book value of \$800 and \$678.59 cash, and all the personal property in the Union from the Haverford College Union. The College assumed the responsibility for the care of the building First Month 16, 1920. The income is used toward the maintenance of the Union building. Present book value, \$1,878.82.

FUNDS FOR SCHOLARSHIPS

THOMAS P. COPE FUND

Founded in 1842 by gift of sixty shares of Lehigh Coal and Navigation Co. stock, par value \$3,000, from Thomas P. Cope. Present book value, \$5,257.82. The income only is to be used "for the education of young men to qualify them to become teachers, but who are not of ability to pay their own schooling." This fund sustains the Thomas P. Cope Scholarships.

EDWARD YARNALL FUND

Founded in 1860 by bequest of \$5,000 from Edward Yarnall. Present book value, \$6,069.23. The income only is to be used for "the support of free scholarships." The fund sustains the Edward Yarnall Scholarships.

ISAIAH V. WILLIAMSON FUND

Founded in 1876 and increased in 1883 by gifts of sundry ground rents from Isaiah V. Williamson. Present book value, \$19,817.40. The income only is to be used for free scholarships. The fund sustains the Isaiah V. Williamson Scholarships.

RICHARD T. JONES SCHOLARSHIP FUND

Founded in 1885 by bequest of \$5,000 from Jacob P. Jones as a memorial to his late son, Richard T. Jones, '63. The income only to be used to sustain the "Richard T. Jones Scholarship." Present book value, \$5,056.25.

MARY M. JOHNSON SCHOLARSHIP FUND

Founded in 1897 by bequest of \$5,000 from Mary M. Johnson. Accrued interest before payment to the College increased the fund by \$3,062.95. The bequest was to establish a "perpetual scholarship." The fund sustains the Mary M. Johnson Scholarships. Present book value, \$7,013.61.

SARAH MARSHALL SCHOLARSHIP FUND

Founded in 1897 by bequest of \$5,000 from Sarah Marshall. Accrued interest before payment to the College increased the fund by \$2,589.49. The bequest was to establish a "perpetual scholarship." The fund sustains the Sarah Marshall Scholarships. Present book value, \$7,919.76.

CLEMENTINE COPE FELLOWSHIP FUND

Founded in 1899 by gift of \$25,000 from Clementine Cope. The gift was to establish the "Clementine Cope Fellowship Fund to assist worthy and promising graduates of Haverford College in continuing their course of study at Haverford or at some other institution of learning in this country or abroad." The selection of the Fellows is made by the Board of Managers upon nomination by the Faculty. Present book value, \$22,845.86.

ISAAC THORNE JOHNSON SCHOLARSHIP FUND

Founded in 1916 by gift of \$5,000 from Isaac Thorne Johnson, '81. Present book value, \$10,202.21. The gift was to establish "The Isaac Thorne Johnson Scholarship to aid and assist worthy young men of Wilmington Yearly Meeting or of the Central West to enjoy the privileges of Haverford College." Unused income is added to the principal of the fund.

CASPAR WISTAR MEMORIAL SCHOLARSHIP FUND

Founded in 1920 by gift of Edward M. and Margaret C. Wistar of \$5,000 par value in bonds in memory of their son, Casper Wistar, of the Class of 1902, who died in Guatemala in 1917 while engaged in mission service in that country. The income only is to be used for scholarships, primarily for sons of parents engaged in Christian service, including secretaries of Young Men's Christian Associations, or students desiring preparation for similar service in America or other countries. Present book value, \$7,434.26.

J. KENNEDY MOORHOUSE SCHOLARSHIP FUND

Founded in 1926 by gifts totaling \$3,000, with \$1,000 added in 1926, and \$1,000 in 1928 and \$1,000 in 1929 from the Class of 1900 in memory of their classmate, J. Kennedy Moorhouse. The scholarship provided by this fund is "to be awarded, whenever a vacancy shall occur; to the boy ready to enter the Freshman class, who in the judgment of the President of the College appears best fitted to uphold at Haverford the standard of character and conduct typified by J. Kennedy Moorhouse, 1900, as known to his classmates: A man, modest, loyal, courageous, reverent without sanctimony; a lover of hard play and honest work; a leader in clean and joyous living." Present book value, \$5,155.85.

LOUIS JAQUETTE PALMER SCHOLARSHIP FUND

Founded in 1928 by gift of \$5,000 from Triangle Society, as follows:

"The Triangle Society of Haverford College herewith presents to the Corporation of Haverford College, a fund of Five Thousand Dollars (\$5,000) to be hereafter known and designated as the 'Louis Jaquette Palmer Scholarship Fund';

"This fund represents contributions from the members of the Triangle Society of Haverford College who have been thus inspired to perpetuate the memory of their fellow member, Louis Jaquette Palmer, of the Class of 1894, one of the founders of the Triangle Society, whom they admired for his cooperative spirit and constructive interest in student and community welfare. The fund is placed with the Corporation of Haverford College with the understanding:

"That such student shall be selected from a list of those eligible for entrance to Haverford College, who shall have combined in his qualifications the fulfillment of such conditions as apply to applicants for the Rhodes Scholarships under the terms of its creation, and furthermore that the student so selected and entered in Haverford College may continue to receive said

scholarship fund throughout his course at College, subject to the approval of the Committee, otherwise preference shall be given to applications for the Freshman Class;

"That the selection of said student and the determination of the qualities and conditions hereinbefore mentioned shall be subject to the decision and control of a committee of three (3), which committee shall be composed of two (2) members of the Triangle Society and the President of Haverford College, the said members of the Triangle Society to select and recommend the applicants and the committee as a whole to determine their qualifications and eligibility.

"Finally, in the event that no student is selected by the Triangle Society or that a vacancy occurs, the income from said funds and any additions shall accumulate as provided under the customary rules and regulations of the Corporation of Havorford College."

This fund has further been added to by yearly contributions from members of the Triangle Society. Present book value is \$16,509.13

PAUL W. NEWHALL MEMORIAL SCHOLARSHIP FUND

Established in 1931 by bequest of \$5,045.60 from Mary Newhall in memory of her father, Paul W. Newhall, a Manager, 1844-48, for the establishment of a scholarship fund. The income only to be used for free scholarship purposes. Present book value, \$5,045.60.

ROBERT MARTIN ZUCKERT MEMORIAL SCHOLARSHIP FUND

Founded in 1935 by gift of \$750. \$2,000 each year, 1936 to 1940, and in 1942; \$2,500 in 1941; \$1,000 in 1943; \$1,000 in 1944; \$2,000 in 1945; \$2,000 in 1947-1948, \$1,000 in 1949-1950, by Harry M. Zuckert, New York, in memory of his son, Robert Martin Zuckert, of the Class of 1936, who was killed in an accident in June, 1935. The income is to be used for scholarship and the donor said, "I should prefer a boy who is a native of New York or Connecticut and who now resides in one of those States." Present book value, \$22,250.00.

SAMUEL E. HILLES ENDOWMENT CREATED BY MINA COLBURN HILLES

Founded in 1935 by gift of \$5,000 from Mrs. Mina Colburn Hilles, of Orlando, Fla., in memory of her husband, Samuel E. Hilles, Class of 1874, formerly of Cincinnati, who died in 1931. This fund was created under a trust deed with Central Title and Trust Co., Orlando, Fla., to whom annual reports are to be made. The income only is to be used for scholarships for worthy students who are unable to finance their expenses at Haverford College. Present book value, \$5,017.31.

CLASS OF 1913 SCHOLARSHIP FUND

Founded Fourth Month 15, 1937, by gift of \$3,000 from Class of 1913 for the endowment of scholarship aid. The income only is to be used for scholarship aid, to be awarded annually to a worthy student of any undergraduate class. Preference is to be given to sons of members of the Class of 1913 who may apply and who meet the usual requireemnts of the College. Present book value, \$3,000.00.

THE AUGUSTUS TABER MURRAY RESEARCH SCHOLARSHIP FUND

Founded Fifth Month 31, 1939, by gift from two anonymous friends of Dr. Augustus Taber Murray, '85, by gifts of \$20,000 par value of securities subject to annuity during their lives, and with permission to use principal for the annuity payments, if necessary.

Upon the deaths of the two annuitants, the remaining principal shall be held in a fund, the "Income to be used for scholarships in recognition of the scholarly attainments of Augustus Taber Murray, a distinguished Alumnus of Haverford College, of the Class of 1885, and for many years a professor of Leland Stanford University, the fund to be known as 'The Augustus Taber Murray Research Scholarship.' Then scholarships in English literature or philology, the classics, German literature or philology (in order of preference) shall be awarded upon such terms and conditions as the College may from time to time establish to students who have received the bachelor's degree at Haverford College, and shall be awarded for the purpose of study in other institutions toward the degree of Doctor of Philosophy or such degree as may in the future correspond to that degree."

The amount of the Scholarship is to be \$900 a year whenever awarded, and only unmarried students are eligible to hold it. Present book value, \$26,705.42

THE CLASS OF 1917 SCHOLARSHIP FUND

Founded Seventh Month 13, 1942, by initial gift of \$2,000.00 from the Class of 1917, John W. Spaeth, Jr., Treasurer, as a Twenty-fifth Anniversary Gift. A further gift of \$250.00 was made at the same time to cover the first two years of a scholarship of \$125.00 per year. Preference is to be given to a son of a member of the Class of 1917. The income only is to be used for a scholarship to the extent of \$150.00 per annum. This was increased to \$200.00 per annum in 1947-1948. Further contributions from the members of the Class of 1917 are to be applied in the following order:

(1)—To supplement the annual income from the principal sum of \$2,000.00, so that the annual scholarship stipend shall be \$150.00 (increased to \$200 in 1947-48, increased to \$300 in 1949-50, increased to \$500 in 1952-53), or as near that sum as may be;

(2)—To add to the principal sum any surplus of these annual contributions not needed to serve the purpose of (1). Since the scholarship stipend for the years 1942-1943 and 1943-1944 was already provided for by the additional \$250.00 already contributed by the Class of 1917, the annual contributions from the Class in these two years was added at once to the principal sum of \$2,000.00, thus serving the purpose of (2) above. Further contributions have been made annually to make their present book value \$11,200.00

DANIEL B. SMITH FUND

Founded Tenth Month 6, 1943, by gift of \$2,500 from Anna Wharton Wood, of Waltham, Mass., who died in 1944. This was increased Fifth Month 24, 1945 by a bequest of \$2,500 made by Miss Esther Morton Smith, of Germantown, Philadelphia, who died Third Month 18, 1942, by a further bequest by Dorothea Atwater Smith of \$5,000 March 10, 1958.

This fund is established by the granddaughters of Daniel B. Smith "in loving memory of their grandfather and his intimate association with the early years of the College."

The income is to be used, in the discretion of the Faculty as an annual scholarship for some young man needing financial aid in his College course. Preference is to be given to a descendant of their father, Benjamin R. Smith, if any such should apply. Present book value, \$10,000.00.

SARAH TATUM HILLES MEMORIAL SCHOLARSHIP FUND

Founded Eleventh Month 1, 1943 by bequest of \$75,534.58 from Joseph T. Hilles 1888, in memory of his mother "Sarah Tatum Hilles."

The will directs that the income be used "to provide for such number of annual scholarships of \$250 each as such income shall be sufficient to create"; they are to be awarded by the Managers upon "needy and deserving students," and to be known as "Sarah Tatum Hilles Memorial Scholarships."

It is estimated that twelve scholars can be thus provided for at present. Present book value \$75,534.58.

ELIHU GRANT MEMORIAL SCHOLARSHIP FUND

Established Second Month 2, 1944 by gift of \$200 from Mrs. Elihu Grant to supplement the simultaneous transfer of \$803.73 to this new fund from Donations Account, being the balance of Donations made by Dr. Grant during his lifetime to the Beth Shemesh account, and \$75.00 realized from the sale of some of his books. Mrs. Grant has made a further gift of \$1,000 in 1943-44 and \$2,000 in 1944-45. And, Grant Foundation, Inc., gave \$10,000, also in 1944-45. Mrs. Grant made a further gift of \$1,000 in 1945-46. In 1949-1950 in connection with the Campaign, the Grant Foundation made a further gift to the College of \$25,000, to be added to this fund. Present book value, \$40,275.01.

With the donor's approval, the terms of the fund are as follows:

"Founded in 1944 to commemorate the service to Haverford College of Dr. Elihu Grant, from 1917 to 1938, a member of the College faculty. The income from this fund is applied to scholarship assistance to students in the Humanities, primarily those specializing in the study of Biblical Literature and Oriental subjects, and is limited to those whose major subject has been approved by the College faculty. In special circumstances the income may be utilized to assist those working for a post-graduate degree at Haverford College." If conditions change, the Managers are given power to change the use of the fund. In making the additional grant in 1949-50, the Foundation stated that "the income from this present gift may be allocated as scholarship or fellowship awards by the proper authorities of the College to under graduate or graduate students without restriction as to courses of studies." Present book value, \$41,375.01

CHRISTIAN FEBIGER MEMORIAL SCHOLARSHIP FUND

Founded Sixth Month 13, 1946 by a gift of \$8,000 from Madeleine Seabury Febiger, of Philadelphia, in memory of her husband, Christian Febiger, Class of 1900.

On Third Month 18, 1949 a bequest of \$9,050 was received from the executors of Mrs. Madeleine Seabury Febiger, who died September 27, 1947, and was added to this fund.

The income only is to be used in paying the tuition or other college expenses of worthy, needy students at Haverford College. Present book value, \$17,050.

JOSEPH L. MARKLEY MEMORIAL SCHOLARSHIP FUND

Founded 2nd Month 10, 1947 by gift of \$5,000.00 from Mrs. Mary E. B. Markley of Ann Arbor, Michigan, widow of Joseph L. Markley, A.B. '85, M.A. '86, who was Professor of Mathematics at University of Michigan. The gift was made "to be held as an endowment fund in memory of Joseph L. Markley of the Class of 1885. The income of which is to be granted each year, in the discretion of the faculty, as a scholarship to some student on the basis of character, scholarship and financial need."

JOSEPH C. AND ANNE N. BIRDSALL SCHOLARSHIP FUND

Founded 2nd Month 24, 1947 by initial gift of \$10,000 from Dr. Joseph C. Birdsall, Class of 1907, of Haverford, Pa., "for the establishment of a new fund to be known as "Joseph C. and Anne N. Birdsall Scholarship Fund, the income only to be granted each year, in the discretion of the faculty of Haverford College, as scholarship aid to some student or students of Haverford College who are preparing for medicine,—the selection to be upon the basis of character, scholarship and financial need." Further gifts 1947-48, \$5,000; 1948-49, \$5,000; 1949-50, \$5,000; 1956-57, \$5,000. Present book value, \$30,000.

DANIEL E. DAVIS, JR., MEMORIAL SCHOLARSHIP FUND

Founded by gifts made First Month 20 and Second Month 17, 1948, totalling \$3,000, by Mr. and Mrs. Daniel E. Davis, of Sewickley, Pa., to establish the Daniel E. Davis, Jr., Memorial Scholarship Fund, in memory of their son, ex Class of 1944, who was killed in aerial warfare in the Pacific.

The income from the fund is to be granted each year, in the discretion of the Faculty, as a scholarship to some student on the basis of character, scholarship and financial need.

JONATHAN M. STEERE SCHOLARSHIP FUND

Founded Twelfth Month 28, 1948 by gift of \$2,300 from Jonathan M. Steere, Class of 1890. Classified among the Scholarship Funds and included in Consolidated Investment Account.

The donor's provisions governing the use of the fund are as follows: "With this stock, or its proceeds, I wish to establish a fund for a scholarship primarily for a graduate of Moses Brown School, Providence, R. I., now under the care of New England Yearly Meeting of Friends. Should the scholarship not be awarded in any one year to a graduate of Moses Brown School, it may be awarded to someone else, preferably from New England, in the discretion of the College. If advisable, it may be given to more than one boy in any year. My preference is that it be awarded to a member of the Society of Friends, but I do not so restrict it. Should the time come when, for any reason, scholarships may not be needed or desirable, having full confidence in the Management of the College, I wish that both the principal and the income be used as the College in its sole discretion shall determine.

"I suggest that at the College it be known as the 'Moses Brown School Scholarship', and at the School as the 'Haverford Scholarship'." A further gift of \$4,985.00 was made in 1949-50 and \$2,715 in 1950-51

Upon his death on September 21, 1958, \$10,000 was added by bequest to the fund making the present book value \$20,000.00.

WILLIAM GRAHAM TYLER MEMORIAL SCHOLARSHIP FUND

Founded Tenth Month 1949 by gift of \$15,000 from Miss Mary Graham Tyler in memory of her father, William Graham Tyler, Class of 1858. Formerly of Philadelphia, William Graham Tyler took an active part in civic improvement in New Jersey and in Iowa, and was concerned with the advancement of Friends Education at both William Penn College and Haverford College.

The income from the fund is to be granted each year, in the discretion of the College, as scholarship aid to some student or students on the basis of character, scholarship, and financial need. Preference is to be given to students from Oskaloosa, Iowa, or William Penn College in that state.

1890 MEMORIAL SCHOLARSHIP FUND

Founded in March 1950 by a gift of \$2500 from Andrew L. Lewis of Worcester, Pennsylvania, in memory of his father, John F. T. Lewis, of Class of 1890, "and in recognition of his father's friendship with the members of his class."

The income from this fund is to be awarded as a scholarship by the College to a deserving student. Since in the beginning the income from this fund will not be large enough to furnish an entire scholarship, it may be used in conjunction with some other scholarship to insure aid of material size. Increased by \$100 in 1951-52, \$100 in 1952-53 and \$100 in 1961-62. Present book value, \$2,800.

1949 CAMPAIGN SCHOLARSHIP FUND

Founded Sept. 1, 1950 by a transfer of \$38,610.00 from the receipts of the 1949 Haverford Campaign for additional endowment.

The income is to be used to increase funds available for scholarships, in order to maintain the quality and increase the diversity of the student body and to carry on the tradition that personal merit rather than ability to pay is the primary entrance qualification.

Until otherwise ordered by the Board, 10% of the income is to be capitalized each year; provided that this shall not reduce the yield from the fund below 4%.

A portion of the Capital of this fund may be expended at the discretion of the Board of Managers in accordance with the policy stated in the Campaign Appeal. Present book value, \$50,374.84

MAX LEUCHTER SCHOLARSHIP FUND

The plan for this fund was evolved during the life of Max Leuchter, who died in 1949, and carried out upon his death by his wife Cecila P. Leuchter and his sons, Ben Z. Leuchter and Joel C. Leuchter. Self educated after completion of grade school, becoming editor and publisher of the Vineland Times Journal, Max Leuchter wished to benefit the College to which he sent his son, and which he had come to greatly admire.

The purpose of the donors in making this gift in 1950 of \$10,000.00 was to "create a scholarship which shall be given yearly to a student whose need can be demonstrated, whose academic performance meets the College requirements, and who, in addition, gives promise of making an outstanding contribution to the life of the College through his breadth of interest, his love of hard play and of hard work."

The scholarship shall be in the amount of \$300.00 in the beginning. It may be given to a new student each year or to one student through each of his four years. All income received above \$300.00 shall be capitalized each year.

"When the income from the fund has reached proportions such that an additional scholarship of \$300.00 can be awarded, and that at the same time at least \$300.00 can be returned to the fund, the additional award shall then be made."

"It is the further wish of the donors that, while their interests are primarily as stated above, should the Board of Managers of the College be faced with circumstances which cannot be foreseen now, the Board may, at its discretion, use the income from the fund for College purposes other than the scholarship purposes." The present book value is \$16,062.64

A. CLEMENT WILD SCHOLARSHIP FUND

Founded in 1951 by a first gift of \$4,087.50 of Gertrude T. Wild in memory of her husband, A. Clement Wild, of the class of 1899. The income from the fund is to be used for a scholarship or scholarships, to be granted without restrictions in the discretion of the College.

In making the gift the donor, though reiterating the freedom from restrictions, expressed the feeling that as A. Clement Wild was born in England, becoming a naturalized American Citizen, a grant to an English Exchange Student or someone in a similar category would be appropriate. Increased by \$4,625.00 in 1951-52; \$4,300.00 in 1952-53; in 1953-54 \$4,100.00; in 1954-55 \$5,300.00; and in 1955-56 \$2,587.50. The present book value is \$25,000.

CAROLINE CHASE SCHOLARSHIP FUND

Founded December 10, 1951 by payment on a bequest of part of the residue of the estate of Caroline Chase, daughter of Thomas Chase, one time president of the College, of Providence, Rhode Island, whose Will provided:

"This gift is made as an expression of my father's enthusiastic appreciation for its high standards of scholarship in Greek, Latin and English literature.

"It is my intention that the said share given to said Haverford College shall be used for any of the educational purposes of said College according to the discretion of the President of the time being."

Present book value of the fund is \$6,245.11.

ROY THURLBY GRIFFITH MEMORIAL FUND

Founded in 1953 by a legacy of \$5,000.00 from Grace H. Griffith, who died April 14, 1952, in memory of Roy Thurlby Griffith, class 1919. "The income therefrom to be used for a scholarship or scholarships for such individual or individuals as in the judgment of the Trustees of said College shall be deserving of the same. The Trustees of said College shall have full power and discretion to determine the number of scholarships, the amount of such scholarships, and the recipients of the same, but it is my desire that wherever possible preference shall be given to boys who have no father and who are in need of financial assistance." Present book value \$5,000.

CLASS OF 1904 SCHOLARSHIP FUND

Founded June 4th, 1954 in commemoration of its fiftieth anniversary by the Class of 1904 and the families of its deceased members, the Fund is to be used for scholarship purposes and has a present book value of \$6,000.

INAZO NITOBÉ SCHOLARSHIP FUND

"Founded in 11th Month 1955 by a bequest of \$10,000 under the will of Anna H. Chace of Providence, R.I. The fund became payable upon the death of her sister Elizabeth M. Chace.

"The income, or so much thereof as said College may deem best, (is) to be used and applied for the education at said Haverford College of a Japanese student who shall be a resident of Japan at the time of his appointment to such scholarship and for his traveling expenses from and to Japan and his living expenses during the period he shall hold such scholarship." Present book value, \$10,000.

THE SUMMERFIELD FOUNDATION SCHOLARSHIP FUND

Founded February 1956, by a gift of \$1,000 from The Summerfield Foundation, this fund is to be added to the Endowment of the College; the income is to be used for scholarship purposes. Present book value, \$7,000.

W. LACOSTE NEILSON SCHOLARSHIP FUND

This fund was established in June 1957 by the family and friends of W. LaCoste Neilson, Class of 1901, in his memory.

The income is to be used for the payment of one or more scholarships at the discretion of the College, preference if possible being given to students taking scientific or practical courses rather than those in the field of the arts. The present value of this fund is \$12,575.00

WALTER R. FARIES SCHOLARSHIP FUND

Founded in 1959 by a gift of securities from Walter R. Faries, Class of 1916, the fund is to be administered in accordance with an agreement with the donor.

Upon the death of certain annuitants "all income thereafter shall be used to provide partial or full scholarships for future students at Haverford with the understanding that leadership qualities rather than scholastic ability alone shall be considered as far as practicable in making such award. If changing circumstances in years to come shall, in the judgment of the Board of Managers of Haverford College, make the original purpose of this fund impracticable or undesirable, such Board shall have the power to use the income for other purposes of the College." Present book value \$65,292.69

RUFUS MATTHEW JONES SCHOLARSHIP FUND

Founded Twelfth Month 23, 1959, by initial gifts of \$1,500 from Clarence E. Tobias, Jr. of Cynwyd, Pennsylvania, as a testimonial to Rufus Jones and in gratitude for "the excellent educational facilities Haverford provided for me and my son," the principal and income of this Fund are to be used for scholarships or loans to students majoring in Philosophy. Preference is to be given to seniors. The recipients will be selected by the Chairman of the Philosophy Department in consultation, if he desires, with his departmental associates and in accord with the usual scholarship practice of the College. The Donor welcomes addition to the Fund from anyone who might be interested.

If changing circumstances in future years make it advisable, the provisions for use of this Fund may be changed by the Board of Managers on the recommendation of the President of the College and the Chairman of the Department of Philosophy. The present book value is \$2,000.00.

CLINTON P. KNIGHT, JR. NEW ENGLAND SCHOLARSHIP FUND

This fund was established in 1961 by a gift of \$5,465.98 from the Haverford Society of New England, representing accumulated contributions from its members over a period of years while they were maintaining a \$500 annual scholarship at the College.

By agreement of the Board of Managers, a portion of the contribution made during 1961 by members of the Society to the Haverford College Development Program was added to the Fund at its inception to bring the total to \$12,500. The income, and principal if necessary, is to be used to maintain annual scholarships of at least \$500. with preference to be given to a student from the New England area. If at some future time changing conditions make it inadvisable to continue on these terms, the Board of Managers shall have discretion to use the principal or income for other purposes. Provision has been made by the donor for additions by anyone interested in the purposes of the fund.

At the request of the Haverford Society of New England, in recognition of the leading part played by Clinton P. Knight, Jr., '16, in the establishment and building up of this Fund, it has been named in his honor. The present book value is \$12,500.

GEORGE A. KERBAUGH SCHOLARSHIP FUND

This fund was established in 1960 in recognition and appreciation of the leadership and personal generosity of George Kerbaugh, '10, who headed the efforts of the Triangle Society to provide for additional badly needed stands for Walton Field.

At the time the stands were given in 1947-49 it was agreed that the income derived from the stands preferably would be used for improving the athletic facilities of the College as determined by the Administration after consultation with the Triangle Society. Changing conditions with regard to admission charges and fluctuations in attendance made it so difficult to arrive at a satisfactory determination of the exact income which these new stands produced that it was decided, in lieu of the previous arrangement, to establish a second Triangle Scholarship of \$700 per annum drawn from the general funds appropriated for scholarships, this being the equivalent of 5% income on the original investment in the stands.

George Kerbaugh's many services to the College included his chairmanship of the Committee which raised the funds for the Library addition built in the 1930's. The Board of Managers then expressed to him "its heartfelt appreciation and its sense of great obligation for a notable achievement."

THE F of X SCHOLARSHIP FUND

This fund was established by a request from Legh Wilber Reid, who died April 3, 1961, and who was the esteemed professor of mathematics at the College for 34 years.

His will provides that the sum of \$10,000 should be invested in a scholarship fund to be known as "The F of X Scholarship." The income from this fund is to be available "to a student entering either the Sophomore, Junior or Senior class in mathematics . . . and have completed with credit the class in Freshman mathematics at Haverford College, and who shall have shown a real interest in mathematics and gives promise for the future of his work in that subject." The present book value of the fund is \$10,000.

FUNDS FOR THE LIBRARY ALUMNI LIBRARY FUND

Founded in 1863 by contributions from the alumni and other friends of the College. In 1909 the unexpended balance (about \$5,000) of a fund of \$10,000 raised in 1892, and known as the "New Library Fund," was merged into the Alumni Library Fund. Present book value, \$17,435.06. The income is used for binding and miscellaneous expenses of the Library.

MARY FARNUM BROWN LIBRARY FUND

Founded in 1892 by gift of \$20,000 from T. Wistar Brown, executor of the Estate of Mary Farnum Brown. Additions were made by T. Wistar Brown in 1894, \$10,000 for a lecture fund, and in 1913, \$20,000. In 1916, after T. Wistar Brown's death, there was added to this fund \$34,499.78 par value of securities, book value, \$30,149.78, being a trust which he had created for this purpose in 1908 and to which he had made additions in subsequent years. Present book value, \$68,269.99. The purpose of this fund (except \$10,000) is for the increase and extension of the Library. The income only is to be used for the purchase of books, and one-fifth of same is to be spent for books promoting the increase of Christian knowledge. The books purchased with the income of this fund are marked by a special book-plate. The income of \$10,000 of the fund is to provide for an annual course of lectures upon Biblical subjects designated "The Haverford Library Lectures." Unused income from the fund, if any, must be capitalized at the end of each fiscal year.

WILLIAM H. JENKS LIBRARY FUND

Founded in 1910 by gift of \$5,000 from Hannah M. Jenks, widow of William H. Jenks. The fund was first known as "Special Library Fund," but after the death of Hannah M. Jenks was changed, in 1916, to "William H. Jenks Library Fund." The purpose of this fund is that the income shall be used for the care of the collection of Friends' books made by William H. Jenks and given by his widow to Haverford College, and to make appropriate additions thereto. Any income not used for these purposes may be used toward the general needs of the Library. Present book value, \$5,000.00.

MARY WISTAR BROWN WILLIAMS LIBRARY FUND

Founded in 1914 by gift of \$20,000 from Parker S. Williams, '94, as a memorial to his late wife, Mary Wistar Brown Williams. The income only is to be used for the purchase of books for the Library, preferably books coming within the classes of history, poetry, art, and English and French literature. The books purchased with the income of this fund are marked by a special book-plate. Present book value, \$20,306.74.

ANNA YARNALL FUND

Founded in 1916 by residuary bequest of \$13,000 par value of securities with book value of \$7,110, and one-half interest in suburban real estate from Anna Yarnall. Additional amount under bequest was received in 1918. Present book value, \$173,078.14. The real estate was sold in 1923 and netted the College \$164,820.50. The bequest was made for the general use of the Library. The Testatrix says, "I do not wish to restrict the managers as to the particular application of this fund, but desire them to use the income arising from it as in their best judgment and discretion shall seem best, for the purchase of books and manuscripts, book cases, rebinding of books, and, if need be, the principal or portions thereof, or the income or portions thereof, for additions to the present Library building, or the erection of new Library buildings. I direct that all books purchased with this fund shall be plainly marked 'Charles Yarnall Memorial' in memory of my father, Charles Yarnall."

F. B. GUMMERE LIBRARY FUND

Founded in 1920 by gift of \$635.41, raised among the students by the Students, Association of the College as a memorial to Professor Francis Barton Gummere. The income only is to be used to buy for the Haverford College Library books on the subjects that he taught or was interested in.

The student's Association voted to raise twenty-five dollars for a special shelf in the Library to be known as the "F. B. Gummere Memorial Shelf." This shelf, with its proper inscription, holds the books purchased by this fund. Present book value, \$635.47.

EDMUND MORRIS FERCUSSON, JR., CLASS OF 1920 MEMORIAL FUND

Founded in 1920 by memorial gift of \$1,000 from the family of Edmund Morris Fergusson, Jr., Class of 1920, who died at the College in his Senior year. The income only is to be used for the maintenance and increase of the Library's Department of English and American Literature. The books purchased with the income of this fund are marked by a special book-plate indicating its source. Present book value, \$1,002.34.

CLASS OF 1888 LIBRARY FUND

Founded Sixth Month 15, 1938, by gifts totaling \$5,250 from members and families of the Class of 1888, on the occasion of their fiftieth anniversary. The conditions of the gift are as follows:

- (1) A fund is to be established, to be known as "THE CLASS OF 1888 LIBRARY FUND."
- (2) The income only of this fund is to be used exclusively for the purchase of books for the Haverford College Library, except as noted below (in Clause 6).
- (3) The fund established now will be added to later by gift or bequest.
- (4) Members of the Class also expect to donate books to the Library, with the understanding that when such books are duplicates of books already in the Library, they may be exchanged for books needed, or sold, and the money so obtained used in the same way as the income of the fund.
- (5) All books purchased by the income of the fund (or obtained as in 4) are to be provided with a special book-plate to be furnished by the Class.
- (6) Income from the Class Fund or moneys obtained by sale of duplicate books may, when necessary, be used for binding or repair of books designated as belonging to the Class collection. Additional donations were made as follows: \$500 in 1939-40; \$100 in 1943-44; \$500 in 1944-45 and \$200 in 1945-46. Present book value, \$6,550.00.

CLASS OF 1918 LIBRARY FUND

Founded Third Month 24, 1938 by gift from the Class of 1918 in commemoration of their twentieth anniversary. The gift was \$1,753.52 of which \$500 was spent for a portrait of the late Rayner W. Kelsey, Professor of History, who died Tenth Month 29, 1934; and the balance of \$1,253.52 was used in establishing a new Library Fund, the income to be used for books. Present book value, \$1,253.52.

QUAKERIANA FUND

Founded 1st Month 8, 1947, by gift of \$600 from President Emeritus William Wistar Comfort '94, as explained in letter from him as follows: "In 1940 some Alumni gave me a sum of money to buy books for myself. This I have done, and now there remains \$600 which I wish to make over to the Corporation, the interest of which may provide books or manuscripts for the Quaker collections. As a compliment to the donors of the fund, I should like the enclosed bookplate to be inserted in such future purchases."

MOHONK FUND FOR THE RUFUS JONES COLLECTION OF MYSTICISM

Founded Third Month 21, 1949 by gifts totaling \$1,500 from members of the Albert K. Smiley family of Mohonk Lake, N. Y.

The gift was made "to make possible additions to the Rufus Jones Collection on Mysticism in the College Library," with the further provision that "it may be used at the discretion of Haverford College, if the purpose for which it is intended should no longer be applicable or desirable."

The fund is classified among Library Funds, and is included in Consolidated Investment Account. Book value, \$1,500.

RUFUS M JONES BOOK FUND

Founded Seventh Month 11, 1949 from bequest of \$5,000 through a deed of Trust established by Rufus M. Jones during his life, "the income only to be used—for the purchase of books on Mysticism, to be added to the Collection of books on that subject," which he turned over to the College a few years before his death.

The fund is designated as the Rufus M. Jones Book Fund, is classified among Library Funds, and is included in Consolidated Investment Account. Book value, \$5,000.

1949 CAMPAIGN LIBRARY FUND

Founded Sept. 1, 1950 by a transfer of \$22,100. from the receipts of the 1949 Haverford Campaign for additional endowment.

The income is to be used to increase funds with which to buy books, and thus maintain the excellence of the Library.

Until otherwise ordered by the Board, 10% of the income is to be capitalized each year; provided that this shall not reduce the yield from the fund below 4%.

A portion of the Capital of this Fund may be expended at the discretion of the Board of Managers in accordance with the policy stated in the Campaign Appeal. Present book value, \$37,368.99

THE CLASS OF 1909 RUFUS M. JONES MEMORIAL LIBRARY FUND

Income from this Fund, established by the Class of 1909 at the 50th Anniversary of its graduation as a memorial to Rufus M. Jones, is to be used for the purchase of books or special reproductions of rare books, in the area of the Humanities, especially in the fields of Mysticism, Religion, Philosophy and Literature as representative of the interests of Rufus M. Jones. Present book value \$2,236.47

RAYNER W. KELSEY FUND

This fund was established by a gift of \$1,000 from Naomi B. Kelsey, widow of Rayner W. Kelsey, who was for many years professor of American History and a curator of the Quaker Collections.

The income is to be used to strengthen the Library collection of books and to promote sound scholarship in the field of American History. The present book value is \$1,000.

THE SARA AND FRANCIS PAWLING FUND

This Fund came into being upon the death of Allison Wesley on January 19, 1962, a friend for many years of the Library.

By her will she left certain of her property to establish a fund "to be used as the library board sees fit." The present book value of the fund is \$1,211.15 (not all of the estate having been received).

FUNDS FOR PENSIONS

PRESIDENT SHARPLESS FUND

Founded in 1907 by contributions from interested friends of the College, finally amounting to \$40,000. Present book value, \$41,237.08. The income is to be used for the teachers and professors of Haverford College as the President of the College and his successors, with the approval of the Board of Managers, may decide. The income from this fund is annually transferred to the Haverford College Pension Fund for old style pensions, or, if not needed for pensions, is capitalized in said fund.

WILLIAM P. HENSZEY FUND

Founded in 1908 by gift of \$10,000 from William P. Henszey, donated in connection with the raising of the President Sharpless Fund, but kept as a separate fund. Increased in 1909 by legacy of \$25,000 from William P. Henszey. Present book value, \$36,758.66. The income is to be used, as in the President Sharpless Fund, for the teachers and professors of Haverford College as the President of the College and his successors, with the approval of the Board of Managers, may decide. The income from this fund is annually transferred to the Haverford College Pension Fund for old style pensions, or, if not needed for pensions, is capitalized in said fund.

JACOB P. JONES BENEFIT FUND

Founded in 1909 and increased in 1910 by proceeds of land sold for account of Jacob P. Jones legacy. Present book value, \$68,113.78. The income is to be used, as in the President Sharpless Fund, for the teachers and professors of Haverford College as the President of the College and his successors, with the approval of the Board of Managers, may decide. The income from this fund is annually transferred to the Haverford College Pension Fund for old style pensions, or, if not needed for pensions, is capitalized in said fund.

PLINY EARLE CHASE MEMORIAL FUND

Founded in 1909 by transfer to the College of a fund raised in 1887 in memory of Professor Pliny Earle Chase, and amounting to par value of \$4,173.04. The income of this fund is used, as in the President Sharpless Fund, for the teachers and professors of Haverford College as the President of the College and his successors, with the approval of the Board of Managers, may decide. This income is transferred annually to the Haverford College Pension Fund, for old style pensions, or, if not needed for pensions, is capitalized in said fund. Present book value, \$3,272.24.

HAVERFORD COLLEGE PENSION FUND

Founded in 1920 and added to since, being accumulations of income from the President Sharpless Fund, the William P. Henszey Fund, the Jacob P. Jones Benefit Fund and the Pliny Earle Chase Memorial Fund, not needed for pensions. Present book value, \$94,688.57. The income from this fund, together with the income from the four above-mentioned funds, is used for old style pensions. Income not needed for pensions was capitalized until 1932; then any unused income was used toward the College's share in cost of new contributory pensions with the Teachers' Annuity and Insurance Association. Now the old style pensions call for more than the income of all these Pension Funds. When the proper time comes in an actuarial sense, the principal of this fund can be used as well as the income for the old style pensions until they cease.

FUNDS FOR SPECIAL PURPOSES

THOMAS SHIPLEY FUND

Founded in 1904 by gift of \$5,000 from the late Samuel R. Shipley as a memorial to his father, Thomas Shipley. Present book value, \$5,248.00. The income only to be used for lectures on English Literature at the College. In case of actual need, at the discretion of the President of the College, the income can be used for general expenditures.

ELLISTON P. MORRIS FUND

Founded in 1906 by gift of \$1,000 from Elliston P. Morris, '48. The income is to be used as a prize for essays to be written by students on the subject of Arbitration and Peace. "The Elliston P. Morris Prize" of \$40 is given in each year, the competition being open to all undergraduates and to graduates of not more than three years standing.

In 1929, it was determined, with the consent of the family of Elliston P. Morris, that when the prize is not awarded the income may be used for the purchase of library books on arbitration and peace. Present book value, \$1,126.75.

JOHN B. GARRETT READING PRIZE FUND

Founded in 1908 by a gift of \$2,000 par value of bonds by the late John B. Garrett, '54. It was the purpose of the donor to ensure the permanence of a prize or prizes for Systematic Reading, which he had given for a number of years. The prizes were not awarded from 1922 to 1939 on account of default of the bonds. Reorganization has resulted in 1939 in sufficient recovery of value to provide again for this prize. Present book value, \$4,197.87.

SPECIAL ENDOWMENT FUND

Founded in 1909 by gift of \$12,000 par value of bonds, book value \$11,800, from an anonymous donor. The income only of this fund to be used "to furnish opportunity for study of social and economic and religious conditions and duties connected therewith, especially from a Christian point of view." The income is used toward the expenses of Summer Schools for Religious Study, which have been held at Haverford and Swarthmore Colleges from time to time, and also for religious education under Friends' care.

On Fifth Month 16, 1930, the Managers adopted the following amendment, made at the suggestion of the donor, now revealed to be John Thompson Emlen, 1900: "If, however, it shall in the course of time be deemed advisable by the President and the Managers that the income of this fund can be used more profitably by the College for other purposes than those herewith stated, it is my desire that they shall act in accordance with their judgment." Present book value, \$9,227.07.

SCHOLARSHIP IMPROVEMENT PRIZE FUND

Founded in 1913 by gift of \$2,000 par value of bonds, book value, \$1,200, from John L. Scull, '05. Present book value, \$2,296.88. The income only to be used to establish two prizes of \$50 and \$45 annually to the two students in the graduating class showing the most marked and steady improvement in scholarship during their college course.

ELIZABETH P. SMITH FUND

Founded in 1915 by bequest of \$1,000 from Elizabeth P. Smith. Present book value, \$1,727.00. The income only to be used as a prize for the best essays on Peace written by students of the College.

S. P. LIPPINCOTT HISTORY PRIZE FUND

Founded in 1917 by gift of \$2,500 par value of bonds, book value, \$2,546.88, from beneficiary of the estate of S. P. Lippincott, '86. The income only to be used as an annual history prize, which is designated "The S. P. Lippincott History Prize." The award is to be made on the basis of a competitive essay. In any year when no award is made, the income is to be used for the purchase of library books in the field of the unawarded prize. Present book value, \$2,546.88.

FRANCIS STOKES FUND

Founded in 1919 by gift of \$5,000 in securities, book value, \$5,000, from Francis J. Stokes, '94, in memory of his father, Francis Stokes, of the Class of 1852, and a Manager of Haverford from 1885 until his death in 1916. The income is to be used for extending the planting of trees and shrubs on the College grounds. The wish is expressed, but not as a binding condition of the gift, that the Campus Club should have the direction of the expenditure of this income. Present book value, \$5,120.30.

GEORGE PEIRCE PRIZE FUND

Founded in 1919 by gift of \$600, and increased in 1920 by further gift of \$400 from Harold and Charlotte C. Peirce in memory of their deceased son, George Peirce, '03. Present book value, \$3,071.60. The income only is to be used for a prize, to be called the George Peirce Prize in Chemistry or Mathematics, to the student who, in the opinion of the Faculty, has shown marked proficiency in either or in both of these studies and who wishes to follow a profession which calls for such preparation. Unused income is capitalized, as requested by the founders of the fund. Present book value, \$5,140.31

LYMAN BEECHER HALL PRIZE FUND

Founded in 1924 by donation of securities of par value, \$2,000, book value, \$1,820, from the Class of 1898 in commemoration of their 25th anniversary of graduation to establish an annual prize of \$100 in Chemistry in honor of Doctor Lyman Beecher Hall, Professor of Chemistry at Haverford College from 1880 to 1917. Present book value, \$2,155.00.

NEWTON PRIZE FUND

Founded in 1925 by donation of five shares of General Electric Co. stock by A. Edward Newton, par value, \$500, and book value, \$1,348.25. The income only is to be used for "The Newton Prize in English Literature to the undergraduate who shall submit the best essay on some subject connected with English literature." In 1930, the award was changed to be on the basis of Final Honors, and in any year when no award is made the income is to be used for the purchase of library books in the field of the unawarded prize. Present book value, \$1,397.75.

EDWARD B. CONKLIN ATHLETIC FUND

Founded in 1925 and added to in 1926, 1927 and 1929 by Frank H. Conklin, '95, in memory of his brother, Edward B. Conklin, '99. Present book value, \$2,400.00. The income is to be used without restriction in any branch of athletics.

EDWARD WOOLMAN ARBORETUM FUND

Founded in 1928 by setting aside \$5,000 from proceeds from sale of 5.811 acres of land on the southern boundary and southeast corner of the College farm, and added to by gift in 1951 (through 1949 Campaign) of \$4,775 and by bequest of \$5,000 from Edward Woolman, Class of 1893, who died March 11, 1960, the income only is to be used for the preservation and maintenance and for increasing usefulness and natural beauty of the Arboretum, bird sanctuary and grounds of the College, until otherwise ordered by the Managers. The present book value is \$14,362.75.

WILLIAM ELLIS SCULL PRIZE FUND

Founded in 1929 by William Ellis Scull, '83, by a gift of \$2,000. The income is to be used annually, so long as the Managers may judge expedient, as a prize to be awarded at Commencement by the Faculty to that upper classman who in their judgment shall have shown the greatest improvement in voice and the articulation of the English Language. The prize is to be known as "The William Ellis Scull Prize." Present book value, \$2,000.00.

PAUL D. I. MAIER FUND

Founded Tenth Month 7, 1936, by bequest of \$1,000 from Paul D. I. Maier, '96, of Bryn Mawr, Pa. The bequest provides for the continuance of the Class of 1896 Prizes of \$10 each in Latin and Mathematics, and any balance of income is to be used for general purposes. Present book value, \$1,000.00.

STRAWBRIDGE OBSERVATORY MAINTENANCE FUND

Founded Second Month 13, 1937, from donations of \$5,627.37 from members of the Strawbridge family, being the amount in excess of the actual cost of the rebuilding and reequipping of the William J. Strawbridge, '94. Memorial Astronomical Observatory. The income is used for the maintenance and equipment of the observatory. The principal can be used for additional equipment, if so determined by the Board of Managers. In 1938 and 1939 an astrographic camera was so purchased at a cost of \$1,787.83. Present book value, \$3,839.54.

C. WHARTON STORK ART FUND

In First Month, 1930, C. Wharton Stork, of Class of 1902, donated to the Corporation securities of a then value of \$69,000 on account of a contemplated gift for the purpose of erecting, equipping, and furnishing an Art Museum at the College. Purchases were made by C. Wharton Stork of paintings, which are hung in the Library. This fund is to be liquidated and is not included in the total of the funds.

JACOB AND ENGIE BUCKY MEMORIAL FOUNDATION

Founded Sixth Month 4, 1942 by gift of \$2,000.00 from Colonial Trust Company of New York and Solomon L. Fridenberg of Philadelphia, co-trustees under the will of Eugenie Bucky, deceased (late of New York), the income only to be used. At the same time accumulated income of \$2,000.00 was also donated as Bucky Foundation Gift, this amount to be available for use for the same purposes as the income of the Foundation. Extracts from Mrs. Bucky's will and codicils in reference to the purposes of the Bucky Foundation are here made as follows:

"The purpose or object of such a Foundation or Fund is and shall be for the encouragement of them who seek new truths, and who endeavor to free and clear from mystery and confusion our knowledge concerning God¹; and thereby to enforce more effectively the common laws of mutual love and obligation, peace and goodwill, between and among our several creeds, races, nations, and markets.²

"My aim, intention, purpose and object is to help in promoting piety among men, enlightening their ignorance and bettering their condition, by making more and more extensive and by spreading among the public at large not only the preaching but also the practicing of the words of the . . . American motto 'In God We Trust,' and of the . . . Preamble to the Constitution for the United States of America. I believe and therefore I aim, intend and purpose that the uplifting of men, women and children to the standard of life taught in the Scriptures and the Constitution for the United States of America is indeed the work of Charity, dispels ignorance, inculcates generous and patriotic sentiments, and fits the public groups and the individual men or women for their good usefulness in the American Commonwealth."

1. Associated with the American motto "In God We Trust."

2. Associated with the Preamble of the Constitution for the United States of America—"to form a more perfect union, establish justice, insure domestic tranquility, provide the common defense, promote the public welfare, and secure the blessings of liberty to ourselves and our posterity."

In 1945-1946 and 1954-1955 further gifts from the Trustees were added to the fund. Unused income, if any, has also been capitalized. Present book value, \$7,453.34

MATHEMATICS DEPARTMENT PRIZE FUND

Founded May 20, 1943 from gifts totaling \$900.00 of members of the Mathematics faculty and others. A further gift of \$125 was made in 1943-44. The unused income is added to principal. This capitalized the annual prizes that had been given by the Mathematics professors for many years.

The Mathematics Department Prizes for freshmen, \$25.00, are awarded annually, in competition, by examination. Present book value, \$1,899.85

WILLIAM T. ELKINTON FUND

Founded Ninth Month 6, 1944, by bequest from William T. Elkinton, of Philadelphia, arising from a Trust set up by him during his lifetime. The principal was \$2,491.50 and income received, \$11.11, a total of \$2,502.61. After the death of a life beneficiary, the Trust provided: "to pay over, assign and transfer one of said equal parts unto the Corporation of Haverford College (a corporation of the State of Pennsylvania); the principal fund thus passing to said Corporation to constitute a part of such endowment as may be established at Haverford College as a fitting memorial of Friends' relief work abroad, which memorial 'should foster the peaceful relations of the United States with foreign countries by acquainting our youth with the principles of European governments and with international problems'; provided however, that if no such Endowment should be established at Haverford College prior to the expiration of one year after the principal of the Fund hereby conveyed becomes distributable under the provisions of this deed, the said one-third part of the fund hereby conveyed shall be devoted by the Corporation of Haverford College for such other purpose as the Trustees acting hereunder, their survivor or successor, shall designate, preferably for the furtherance of education in some form at Haverford College or for providing assistance in the form of scholarships to promote education."

In accordance with a suggestion from President Morley, concurred in by Thomas W. Elkinton representing the Trustees, the Managers voted on Ninth Month 22, 1944, that "the income until otherwise directed, is to be used for traveling and other expenses in the attendance at intercollegiate conferences for discussion of international problems by representatives of the International Relations Club at Haverford." The Trustee further stated "as long as the activities of the Club are closely related to 'acquainting our youth with the principles of European governments and with international problems, the use of the income by the Club would be satisfactory."

TILNEY MEMORIAL FUND

Founded in First Month, 1945, by gifts totaling \$2,000 by I. Sheldon Tilney, 1903, in memory of his parents, John S. and Georgiana E. Tilney. The income is to be used "to try to influence the student body towards a more religious viewpoint of life." Permission was also granted by the donor that "the income may be used also in connection with a scholarship for students in the field of Philosophy or Biblical Literature."

In 1945-1946 the fund was increased to \$5,000, by gifts of \$1,000 from Georgiana S. Kirkbride and \$2,000 from Robert W. Tilney, sister and brother of I. Sheldon Tilney. In 1948-49 a further gift of \$250 was received from I. Sheldon Tilney. In 1949-50 a further gift of \$1,000 and in 1952-53 \$500 was received from I. Sheldon Tilney. Present book value, \$7,000.

CLASS OF 1902 LATIN PRIZE FUND

Founded Second Month 2, 1945, by gift from Class of 1902 of \$142.90, being proceeds of sale of security formerly purchased and held by the Class to perpetuate a Latin Prize of \$10 annually at Haverford. The Class had donated the income for this prize since 1913. An unused balance of \$39.00 of such donations was transferred to the income account of this fund.

CLASS OF 1898 GIFT

Founded Sixth Month 12, 1948, by contributions totaling \$6,100 from members of the Class of 1898 as a 50th Anniversary Gift of their graduation. The conditions of the gift were "For a period of 25 years the income only produced by the fund is to be used to pay the expenses of lectures at the College by qualified persons on such subjects and at such times as the President of the College, with the advice of the Faculty, may think best, including at the discretion of the President, conferences between the lecturers and the students. After August 31, 1973, the income and/or principal of the fund, may, at the discretion of the Board of Managers, be used for any purpose in connection with the College." Present book value is \$6,315.00.

EDMUND J. LEE MEMORIAL AWARD FUND

Founded Eighth Month 31, 1948, by donations totaling \$908.50 from members of the Class of 1943 on the occasion of their Fifth Reunion. The Class desired "to perpetuate the memory of Edmund Jennings Lee, 2nd, its sole member killed in the past war, and to stimulate in the College that spirit of service for which he was known. In 1948-1949 a further gift of \$100 was received from Miss Mildred W. Lee, sister of Edmund J. Lee.

"The proceeds from the invested fund shall be used to establish an annual award to be known as the Edmund J. Lee Memorial Award to be awarded annually beginning in 1949, to the recognized undergraduate organization which has contributed most toward the furtherance of academic pursuits, extra-curricular activities, spiritual growth, or college spirit, in individuals or in the College as a whole during the year. The Award is to be used by its recipient in continuing to render such service."

THE DAVID R. BOWEN PREMEDICAL FUND

Established in 1950 by the family and friends of the late Dr. David R. Bowen, who, regretting a definite lack in his own training, believed strongly that men preparing to be physicians should receive a basic liberal education of the kind offered at Haverford College. The income is to be used at the discretion of the President of Haverford College, to purchase books for the use of premedical students, pay for professional magazine subscriptions, for lecturers, or for any other projects closely related to premedical training. Further gifts have been made yearly to the fund. Present book value, \$902.55.

JONATHAN & RACHEL COPE EVANS FUND

"Founded in 1952, through gifts to the 1949 Campaign by the children and grandchildren of Jonathan and Rachel Cope Evans. The principal is to be invested and the income used one-half for scholarships and one-half for the purposes of the Rufus M. Jones Fund for Advancement of Teaching. If, however, at the expiration of twenty-five years the Board of Managers deems it advisable to use the income, or if necessary the principal, of the Fund for other purposes, it shall be free to do so." A further gift was made in 1952-53 of \$500. Present book value is \$15,043.62.

EDWARD HAWKINS MEMORIAL FUND

Established in 1953 by a gift to the College from the Class of 1937. The Fund is given in memory of Edward Hawkins; a member of that class.

The income to be used for the purchase of equipment required for intramural athletics. If such becomes impracticable, the income is to be used as directed by the Managers. Present book value is \$1,457.44.

WILLIAM W. BAKER PRIZE FUND

"Founded in 1954 by bequest of \$500.00 from Mertie Gay Baker, who died January 31st, 1954, the fund is to be invested and the income given as a prize in the study of Greek. If the study of Greek at the said College should be discontinued, I direct that the income be given as a prize for the study of Latin and should the study of Latin be discontinued, I direct that the income be used as a prize in the study of Ancient History or Biblical Literature."

JOHN G. WALLACE AWARD FUND

This fund established in 1958 by a gift from John G. Wallace and added to annually, is to be used toward the purchase and maintenance of a best actor award cup for Class Night, "and the awarding each year of a silver plated replica of the trophy to the recipient of the award." Present book value \$300.

CHRISTIAN RELIGION AND THOUGHT FUND

Founded in 1958 by a special grant from an anonymous source, this amount is to be used to establish a fund for purposes connected with the problems of Christian religion and thought.

Until otherwise directed by the Board, the income may be used as directed by Professor Douglas Steere, and the administration of the college; the principal may be expended from time to time upon their recommendation and at the discretion of the Board of Managers for the above purposes. The present book value of the fund is \$4,000.

THE KURZMAN PRIZE FUND

"This fund was established in 1958 by Harold P. Kurzman of New York, to provide a prize for the senior who has generally performed best and most creatively in political science course work. This prize, initially established in the amount of \$125, was given in appreciation of the benefit to Harold P. Kurzman, Jr., '58, from his work in the political science department. In any year when it is the judgment of the department that no work has been performed of sufficient merit to warrant this award, the funds shall be used to purchase books in this field for the Library or shall be expended in other ways for the benefit of the department. Surplus income also may be used in this manner. Present book value \$2,784.38.

THE SCHOLARS IN THE HUMANITIES FUND

This Fund was established by an anonymous gift in April 1962, to enable the College to bring to Haverford distinguished scholars in the humanities. Within this broad field, the administration of the fund is left to the President and the Board of Managers. The present book value of the Fund is \$36,900.

FUNDS WITHDRAWN

The following funds left to the college with no restrictions, have been wholly consumed to meet in part the Corporations' share of the Building Program of 1953-1956:

Ellen Waln Fund
Henry Norris Fund
Clarence W. Bankard Fund
Mary Brown Fund
Emma Ridgway Comly Fund
Mary K. Comly Fund
Charles J. Rhoads Fund

STATED MEETINGS OF THE CORPORATION
AND THE MANAGERS

The Annual Meeting of "The Corporation of Haverford College" is held in Tenth Month at such time and place as the Board of Managers may determine.

The Stated Meetings of the Managers will be held on the third Sixth-day of First, Third, Fifth, Ninth and Eleventh months.

LEGACIES

The friends of the College, including former students, and all who are interested in the promotion of sound learning, are invited to consider the College in the disposition of their estates by will.

FORM OF BEQUEST OF PERSONAL PROPERTY

I give and bequeath, free and clear of all estate, inheritance or other similar taxes, unto The Corporation of Haverford College, the

sum ofDollars.

FORM OF DEVISE OF REAL ESTATE

I give and devise, free and clear of all estate, inheritance or other similar taxes, unto The Corporation of Haverford College, its Successors and Assigns, in fee, the following described real estates: (Here describe the real estate.)

HAVERFORD COLLEGE BULLETIN



LIBRARY
REPORTS

***Haverford College Bulletin*, Vol. LXI, Number Four, January, 1963, Library Reports.** Issued July, October, November and January by Haverford College, Haverford, Pennsylvania. Entered as second-class matter November 2, 1944, at the Post Office at Haverford, Pa., under the Act of August 24, 1912.

REPORTS OF THE LIBRARIAN
and
THE CURATOR
OF THE QUAKER COLLECTION
for
1961-1962



HAVERFORD COLLEGE
HAVERFORD, PA.



REPORT OF THE LIBRARIAN

1961-1962

The gist of annual reports is expressed briefly by two familiar verses:

We look before and after,
And pine for what is not.

Looking at what went before implies the presentation of statistics and a record of whatever changes in staff, services, or circumstances affected the Haverford Library in the past academic year. Looking ahead seems closely conjoined, as the verses indicate, with pining for what is not. I think audible and repeated pining is one of my duties, and that I ought to take advantage of such occasions as this to speak my mind about prospects and problems as well as about last year's activities. I should add at once, however, that I have no new large problems to cause alarm; just the old ones, some of which are more than large enough already.

In my last report I tried to summarize the Haverford Library's principal resources and needs with respect to collections of books and periodicals, staff, and finally the building. Undoubtedly some of the points made then should be emphasized year in and year out, for we cannot remind ourselves too often that a library is always growing and therefore always in need of the nourishment, space, and benevolent climate which promote organic growth. Whether a college's enrollment increases or not, its library grows; and the library is probably the only department of a college of which this can be said unqualifiedly. No one would be so foolish as to assert that after we add so many more books we can then let down and stop buying. As long as books of utility to Haverford teachers and students are published, we shall want to add as many of them as we can afford. Only by doing this can the Library continue to make its indispensable contribution to what is most important at Haverford: the college's long-established tradition of scholarship.

This certainty of steady growth, then, with accompanying regularity of questions concerning storage space, funds, and staff, provides annual and I fear somewhat monotonous themes in these reports. Monotonous or not, they are necessary, because adding books is awkward if there are not adequate means of housing and care for them. Yet there is no need for pessimism. The Library has some formidable problems demanding expensive solutions, but I am confident these solutions can and will be found. We have a good library and a staff which provides unusually good service. That is the kind of library Haverford work requires and Haverfordians deserve.

THE COLLECTIONS

The usual Library statistics and list of contributors are printed elsewhere in this report. They show that our total number of volumes reached 225,586 by June 30, 1962. During the year ending on that date we added by purchase or gift 4,693 volumes as compared with 4,864 in the previous year. This slightly smaller number does not mean, however, that fewer volumes were ordered in 1961-62 than in 1960-61 but that, for reasons beyond our control, we had at the end of the year more volumes than usual waiting to be catalogued. For example, we still had more than 3,000 gift books to be processed in addition to books purchased. Also there was in June an unusual number of orders still outstanding. About 500 volumes of periodicals were still unaccessioned by June 30 because of lack of funds for binding them and because some academic departments wished to have binding of certain periodicals postponed until classes ended. Moreover, the too frequent necessity of assigning cataloguers to part-time duties at the Reference Desk last year took time from their cataloguing work. This situation has now been corrected.

The number of books borrowed at the Circulation Desk was slightly higher than in the previous year (28,485 as compared with 28,317), the number borrowed at the Reserve Desk definitely higher (27,153 as compared with 26,169). Since the College enrollment was slightly smaller than in 1960-61, the figures show once again how heavily the Faculty depend on reading assignments to be done through reserved books. There is nothing wrong with that, of course; it is what the Reserve Room system is for. If students should begin to borrow fewer books on their own initiative, as they continue to read more which they are told by someone else to read, then we might have something to worry about. But at present there seems no danger of this.

Another definite increase in 1961-62 was that in Interlibrary Loan: 571 books borrowed for Haverford use as against 441 the previous year; 1,103 loaned by Haverford as against 900 the previous year. Interlibrary Loan began as an occasional convenience but has become a daily service which takes a large part of one staff member's time.

Among notable additions to our collections during the year were two books bought with Philips funds: (1) the first separately issued edition of Erasmus' celebrated pamphlet on peace, *Dulce Bellum Inexpertis*, Basel, 1517, an especially appropriate purchase; (2) the first edition of a prized collection of Portuguese, Galician, Catalan, and Spanish proverbs, *Refranes, o proverbios en romance, que nuevamente colligió y glossò el comendador Hernán Núñez*, Salamanca, 1555. In 1960-61 we bought more Philips rare books, but we do not try to buy a particular number each year. We prefer instead to buy what seems most appropriate to our curriculum and interests. In some years we spend all the annual Philips appropriation assigned for rare books; in other years only part of it, saving the rest for another year. Again, in some years the money available may buy only two or three very expensive but desirable books; in other years it may buy a dozen desirable but less expensive titles. This seems the best policy so long as we are satisfied that the books are valuable to us and meet the conditions of the Philips grant.

Appended to last year's report was a check-list of titles of the rare books bequeathed to the College by W. P. Philips. To the present report is added a list, compiled by Mrs. Mae Craig, of rare books purchased since 1952, most of them with Philips funds. Such a list ought to be brought up to date and printed every ten years to provide a permanent record of what was done with the money available for such purposes.

With regard to rare books, but especially to manuscripts and other documents, of which there is a total of some 65,000 in the Quaker, Roberts, and other collections, two more important aids to their use and preservation must be mentioned. First, the College's purchase of a Xerox photocopying machine enables us to reproduce documents quickly, safely, and locally for persons or institutions requesting them. To date we have had to send documents to a commercial photographer, an expensive and not always safe procedure. Publication of *American Literary Manuscripts* (1960), a check-list of holdings in

academic and other libraries of the United States, and the forthcoming publication of the *National Union Catalog of Manuscript Collections* means that we may expect more requests hereafter. Secondly, the time has come when we must add to the annual budget a sum to be used for restoring damaged documents and rare books. We have many documents that need such treatment. The markedly successful Barrow method of laminating documents is now conveniently available in Philadelphia.

Once more I must stress the urgency of finding funds to build a large vault or a fireproof, damp-free room for the proper preservation of rare books and manuscripts. I repeat that these will not be adequately cared for until we do this or, at the very least, put steel, fireproof doors on the Treasure Room and Manuscript Room and install equipment to give these rooms controlled air at all times. The Library proposed last spring that part of the balance from accumulated income in the Philips fund be used to build an addition to the Treasure Room or to renovate the Treasure Room as desired. To our disappointment, we were advised that such an expenditure of the restricted Philips income could not properly be made within the terms of the Philips bequest. This being so, we should, I think, return to an earlier proposal: that we consider using for this purpose whatever portion necessary of the Library's share in the Development Campaign. That share, you recall, was set at \$200,000: small indeed by contrast with what would be needed to make the Library building what it ought to be, but more than enough, surely, to provide a sufficiently big vault or room for manuscripts and rare books. The College has an obligation to preserve these materials. If the rooms proposed were large enough, other things as well might be kept there: certain official records, for instance, and the more important Haverfordiana, which are now on crowded shelves on the fifth floor.

As for Haverfordiana, I am glad to report that Professor Lockwood has completed a very useful check-list of that collection.

Among Haverfordiana added during the past year two documents may be noted here. One, presented by Richard W. Norton, '44, is a letter from James Buchanan to the Board of Managers, dated June 19, 1867, declining on grounds of ill health an invitation to the Haverford graduation exercises of that year. Whether he would have come had he been in good health can only be guessed. He had some strong and critical ideas about colleges. His unruliness had caused his rustication

from Dickinson in 1808. As President of the United States he vetoed the first Land Grant Act, 1859, the largest effort made to that date by the Federal government to aid higher education.

The second item, acquired by purchase, is a manuscript by Samuel J. Gummere, Principal (1862-64) and President (1864-74) of Haverford. This contains a short poem, "A Sabbath Day on the Prairie," 1857, and a long one of 81 pages (of the same date, presumably), "The Prairie," which is a record of a trip to Iowa.* President Gummere was an exceptionally versatile scholar, though it may not be unjust to say that he was more distinguished as an astronomer than as a poet. Still, his poem contains observations and opinions of interest to the social historian, disappointing though it might be to partisans of the American Indian. He took a dim view of the Noble Savages he encountered:

Here are the lazy, lounging, loitering knaves
Who arrogate the title of the "Braves."

His reassuring conclusion was that despite the prevalent crudeness and discomforts of daily life west of the Main Line, it had exhilarating promise:

. . . barbarism is fast giving place
Before the enlightened Anglo-Saxon race.

But, like a sensible man, he stayed close to Haverford thereafter.

NEW SERVICES

In the past year the Library added new services of importance to the work of the College:

1. We now have in the Public Catalogue Room a Reference Desk. If it seems odd that we had none earlier, this circumstance is to be accounted for by the comparatively small number of students in the

* The poem appeared to be complete, but, remarkably enough, on the very day when this report was read at the Annual Meeting of the Haverford Corporation I was informed by Professor Dean P. Lockwood that he had just received as a gift from Richard M. Gummere, Jr., (M.A.) '51 a manuscript poem called "The Prairie," by Samuel J. Gummere. This proved to be not another copy but part I of the work, the full title of which is "The Prairie, or Iowa Seen From an Open Wagon." We had purchased our manuscript (part II, but not labeled as such) from a Chicago dealer, never even suspecting that a part I existed.

College, the convenience of the collections, and the assumption that Haverford students ought to be able to find information for themselves. But there is now so much reference material, and so many inquiries from persons other than students, that it seemed better to have a conveniently located desk where inquiries of all kinds could be handled. A member of the staff is at the Reference Desk most of the day and part of the evening. This service has already justified the expense involved.

2. Two more departmental libraries were added: one for Psychology on the fourth floor of Sharpless, the other for Music on the first floor of Drinker. Removal of Psychology journals and of all except a few books on music from the main Library gave us some additional space there and proved a convenience to the two departments concerned. We now have seven departmental libraries: Psychology, Music, Chemistry, Astronomy, Engineering, Biology, and Physics. In another year the chemistry and physics books and periodicals and those on mathematics will be moved to a library in the new Science Building.

3. Steps were taken successfully last year to keep our departmental libraries in better order. A member of the Library staff now visits each one daily to see that books and periodicals are shelved properly and to do whatever else is needed. As a result these libraries are in much better condition. In the Music library at Drinker a student assistant is on duty in the afternoon and evening.

A meeting of academic librarians from the vicinity was held at Swarthmore College last January to discuss departmental libraries, a topic on which there are, not surprisingly, different opinions among librarians as among teachers. This is not a question on which I feel like taking a strong party line, since I believe that the utility, or lack of it, of such libraries is determined mainly by local conditions. In some colleges and universities they are successful; in others they are not wanted. My impression to date is that at Haverford they are advantageous and deserve to be maintained. The books and periodicals in them are Library property and under Library control. Our departmental libraries are essentially working collections that save the time of Faculty members and advanced students who wish to consult technical publications in a hurry. In a college where independent work is emphasized and virtually all members of the Faculty have research projects, this convenience matters. Finally, all departmental libraries are within 200 yards of the main Library building; anybody can use

both his departmental library and the main one without physical exhaustion. I know that from an administrative point of view objections can be made to departmental libraries, but these libraries seem to me worth keeping as long as the departments concerned want them.

4. Last year the Library was asked to act as custodian of maps used in College classrooms. A storeroom was made for them in Chase, a member of the Library staff given responsibility for having maps placed in classrooms when they are needed, and a list of available maps was prepared and distributed to the Faculty. This list will be revised yearly as new maps are added.

5. Until this year the Library also acted as custodian for a small rental library of books, mainly fiction, bought by an informal Faculty committee. The Library has agreed to take over the books and has promised in return to increase its spending on recent and contemporary literature, which is not so well represented here as it ought to be.

6. For some years it was customary to hold an annual sale of duplicate and discarded books. This was a chance for students to add to their personal libraries in an inexpensive way, and they made the most of it; in fact they wanted more than one such sale a year. Last year, instead of having one large sale, we put duplicates and discards on certain shelves about once a month. This seems a better arrangement and will be continued.

7. A visible file containing a list of all scientific periodicals in the departmental libraries at Bryn Mawr and Haverford, as well as those received in the main libraries of both colleges, was prepared by Mrs. Suzanne K. Newhall, Circulation Librarian, and is now kept on the Circulation Desk. It contains also a partial list of the scientific publications in the United States government documents collection at Haverford.

8. In last year's report I observed that the Library was now kept open until midnight in examination seasons and that "We shall probably hear from students that they want the building kept open until midnight every night." Well, we did and it is. The Haverford Library is open from eight a.m. until twelve midnight every day of the week except for forty-five minutes during the dinner hour and on Sunday morning. I do not know of any college library which is open longer.

The expense involved is not large and the accessibility of Library materials until midnight seems to be appreciated by students. I hope we shall not be asked to stay open around the clock, but you never know.

In the second semester last year we had a recurrence of trouble with high school students in the Library. Some who had permission to use the Library abused the privilege; others apparently came without permission. We have tried to remove this difficulty by reminding principals and headmasters of our rules, by announcing that we expect secondary school students to finish their work in this Library by six p.m., and finally by issuing to those students who are granted Library privileges an identification card which they must sign and show to the attendant at the Circulation Desk.

FINANCING PERIODICALS

A topic emphasized in my last report, and one on which further information was promised, was that of Library finances. Each year the average cost of a book or periodical increases, and as new courses and new instructors are added correspondingly larger requests for publications are usually made. For the present our book funds are adequate, mainly because of the wise action of the Board of Managers two years ago in providing an annual budgetary appropriation of \$5,000 to supplement the Library's existing funds. We must try to avoid spending this money, or most of it at any rate, on anything but publications. If we can do this we can continue to increase the annual departmental allocations.

On the other hand, we do have a serious financial difficulty with respect to periodicals bought with Philips funds. Haverford's Library ought to have as large a collection of "important and learned" (the qualification for admission to the Philips list) periodicals as is needed for the work of teaching and research in this College. In the past decade the Faculty and Library have counted on Philips to buy all scholarly journals needed. Receipt of so generous a bequest as that of Mr. Philips made it possible for departments to add many periodicals they could not have acquired otherwise. They added and continued to add, naturally; surely to the benefit of the College.

Following are revised figures showing Haverford's periodical and serial holdings as of September, 1960. ("Serials" in these lists includes continuations.)

Periodicals (excluding serials):

Philips	471
Non-Philips	275 (145 by gift)
Total	<u>746</u>

Serials

Philips	177
Non-Philips	237 (185 by gift)
Total	<u>414</u>

Total number of periodicals and serials received	1160
Total number of periodicals and serials paid for	830
Total number of periodicals and serials paid for by Philips	648

From 1952 to 1960-61 a new periodical was charged for the first year to the department requesting it; after the first year, if the Library Committee approved, the cost was transferred to Philips. Since 1960-61 the Library Committee has refused such requests. Total Philips expenditures have more than doubled in ten years; they were \$9,204 in 1952-53 and \$20,573 in 1960-61. Why? Because one and a half staff salaries are chargeable to Philips—quite legitimately, since it takes much time and trouble to keep records on periodicals and serials; because subscription costs go up every year and binding costs increase frequently; because new periodicals appear every week, and some of these are important enough to add to our holdings if they are deemed relevant to Haverford work.

For 1961-62 the Library was allocated by the Philips Committee 36.6 per cent of available Philips money, or \$21,228, for periodicals (i.e. current periodicals, portions of certain salaries, as just explained, and binding) and 3.4 per cent for rare books. The allocation for 1962-63 is 30 per cent, or \$17,400, for periodicals plus 3.4 per cent for rare books. By action of the Philips Committee three years ago, 30 per cent for periodicals is regarded as normal; the grant for 1961-62 was by special grace, not regular policy. Estimates for 1962-63, after our best efforts to economize, showed a prospective deficit of \$3,300.

To cover this deficit President Hugh Borton designated sufficient funds from the accumulated balance of the Philips fund.

Meanwhile the Library Committee voted that hereafter each department be required to pay from its book funds the annual subscription and binding costs of all new or additional periodicals which that department wants. These subscriptions cannot be transferred to Philips charges after the first year. In effect this policy constitutes a "freezing" of the present proportions among departments of drafts on the Philips fund for periodicals. It will, at least, prevent the addition of more periodicals to Philips charges. Yet the other half of the problem, i.e. meeting the steadily rising cost of the now "frozen" list, will recur annually unless we take new measures. If all available Philips money was needed last year to pay for periodicals other than those added in 1961-62, that same sum will not pay for the same number this year or next year. We cannot hope for drastic reductions in our present holdings by means of sacrificial departmental action. Departments feel, correctly I am sure, that they could not maintain the present quality of work if their periodical holdings were seriously curtailed. On the contrary many or most departments want to add new periodicals every year. Departmental allocations for books have increased in the last two years and, I think, will continue to increase. These increases will allow departments to add some badly needed journals without too much financial strain. Such a scheme also has the fundamental advantage of allowing, or rather compelling, each department to make its own decisions between buying certain new books and certain new periodicals.

LIBRARY BUILDING

The Matzke Room, containing books and journals on Romance philology, was refurnished last year, thanks to a gift from the class of 1961.

New shelves were added along the wall opposite the card catalogue in the Catalogue Room to accomodate the *British Museum Catalogue*, *National Union Catalog*, *Library of Congress Catalog*, and other bibliographical works. This accomodation gives us in turn a little more space in the Staff Room, which nevertheless remains seriously crowded.

The question of additional space for the American Friends Service Committee files, kept on the fifth floor, was studied. Space was gained

through transfer by Mr. Edward Evans of many boxes of Cope papers to another library, but it is doubtful if we shall be able to find more room for some time. These files are the property of the AFSC, but the College has housed them for many years. It is glad thus to be of service to AFSC, but both AFSC and the Library recognize the limitations on storage space on the fifth floor.

Each year stacks become more crowded, but we expect to make room for perhaps 12,000 or more books in new stacks when we take over the present Faculty studies on the fourth floor. This we shall do a year or two hence when the present Chemistry Building has been renovated for offices. Undoubtedly many Faculty members would prefer studies in the Library, but after two more years we shall have no unfilled stack space except that which is now occupied by these studies. And when that space is filled, what are we to do? Either build a large new annex to the present building, doubling the capacity of this building as I should hope, or acquire a depository of some sort where we can store our less frequently used books and periodicals. We shall not gain much space when the Science Building is finished, because the physics and chemistry books to be kept there are not now in the main Library.

My last report stated the case for facing very soon the hard but inescapable question of where to keep books a few years from now. I cannot say that any visible progress was made toward this end in the last academic year, but renovations, additions, and a depository were at least discussed occasionally in Library Committee and other meetings. Possibly there will be much more to say on one or more of these topics in another year or two. We must hope so.

Now and then we are told to be patient, that some electronic marvel just around the corner will solve our space problems and those of all libraries. We may be, in fact, closer than most persons suspect to the time when libraries of *printed* books will have become as obsolete as libraries consisting of manuscripts. For example, one new electronic process is said to make possible the storage of the entire contents of a 400-page book on one square inch of card.* When

* "Electronic process" sometimes seems but little more clear than the phrase "occult causes" in medieval philosophy—*ignotum per ignotius*—and sometimes has the same irresistible grandeur of generality. However, the process referred to above is one about which this much, at any rate, can be said: that it is a new photochromic micro-image technique, using "a photochromic material consisting of molecules of light-sensitive dyes." Reductions are claimed to be "far finer than those achieved with the finest microfilm." See *Scientific American*, July, 1962, p. 117.

needed for reading purposes, the micro-images can be enlarged to page size. "Thus," says the announcement, "the library of the future could store all its volumes on small, expendable memory cards." An entire college library could be kept in a dozen filing drawers in the librarian's office. Personally I find this a rather sobering prospect. Yet even if it happened we would need a good many magnifying machines in order to allow everybody to read at the same time; and unless science is prepared to reduce the student to a square inch of card that can be filed away in a drawer, we would still require plenty of working space for each reader.

That technology will continue to produce many ways of changing, and let us hope expediting, library operations, is virtually certain. It is equally certain that in large libraries more materials will have to be stored on cards, film, or by some other means. But we cannot stop and wait for books to be superseded by cards or films; and even if we did we would still have the present collection of 225,000 volumes to care for. We expect to buy books for a long time to come—which means that we must have more room in which to keep them. And so long as our concern in this College is with the individual student's creative intellectual development and with his instructor's opportunities for writing and research, we must try to provide adequate and comfortable places for work.

STAFF

Seven members of the Library staff resigned last year and ten new ones have been appointed since my last report was published.

Professor Thomas E. Drake's departure from Haverford College was a serious loss to Faculty and Library staff alike. His years of expert and devoted service to the Quaker Collection are best known to those who were longest associated with him, but even those of us who did not know him until fairly recently are very well aware of how much the Quaker Collection owes to his labors. Haverford College and the world of Quaker historical scholarship are in his debt. He will be missed in the Library, but we know his interest in it will continue. We welcome his successor, Professor Edwin Bronner, no stranger to Haverford or its Quaker Collection, and wish him many years of fruitful work here.

Dr. Marija Krasauskas, a staff member since 1953, resigned to accept a teaching post at Aurora College, Aurora, Illinois. Her special

competence in Slavonic languages and her readiness to help students made her services particularly valuable to us. She has our best wishes in her new career.

The Treasure Room lost the services of its able supervisor, Mrs. Bess Haakinson, and its part-time archivist, Mrs. Elsie Freeman. Mrs. Cynthia Estes, Library Assistant for two years, resigned; as did Mrs. Virginia Martinson, secretary, and Mrs. Margot Adams-Webber, clerk at the Circulation Desk.

In addition to Professor Bronner's appointment, others were made as follows:

Miss Deborah Hill (B.A., Pennsylvania; M.A., Villanova), cataloguing assistant. Miss Hill has been with us since October, 1961. The other appointments listed here were effective in September, 1962.

Miss Shirley Stowe (B.A., Radcliffe; M.S. in L.S., Drexel), cataloguer.

Mrs. Maria Kunyia (M.Ph., University of Poznan, Poland; M.S. in L.S., Drexel), cataloguer.

Mrs. Elizabeth B. Tritle (B.A., Pennsylvania), secretary to the Curator of the Quaker Collection.

Mrs. Meredith Crabtree (B.S., Rhode Island), typist.

Mrs. Broné Masalaitis (graduate, University of Kaunas, Lithuania), assistant.

Mrs. Alice E. Whittelsey (B.A., M.A., Mount Holyoke), archival assistant in the Quaker Collection.

Mrs. Martha J. Moore (B.A., Middlebury), assistant at Circulation Desk.

Mrs. Frances Barnett (B.A., Rollins), clerk.

We are pleased to announce that our efficient Reserve Room Librarian, Mrs. Bjorg Miehle (graduate, Statens Bibliotekskole, Oslo; B.S. in L.S., Drexel) is now a full-time employee.

We acknowledge with thanks the valued assistance, in reference and bibliographical work, of Mr. Charles N. Welsh, '51.

New appointments required a certain amount of re-organization of staff assignments. These need not be described here, with two exceptions. Miss Else Goldberger is now able to devote full time to the acquisitions work on which she has long been expert. The increasing number of orders and special programs, e.g. the Asian Studies Program of 1960-61, which will be resumed in the second semester of 1962-63, made it quite impossible for the often complex work of ordering books to remain a less than full-time task. Mr. Paul Avsenew, an experienced bookkeeper, joined the staff last year and has responsibility for keeping financial records in connections with book orders. He is also in charge of the map service described earlier in this report and of the shelving done by student assistants.

The effectiveness of the library as a College resource and a center for study depends not on its collections alone but on the staff there; and not only on their technical skill in day-to-day operations but their interest in Haverford College and their desire to be as helpful as possible to professors, students, and visitors. We are fortunate in having a staff of such caliber. To them and to the Assistant Librarians, Mrs. Ruth Reese and Mrs. Esther Ralph, my thanks on behalf of the College.

GIFTS

The Library is grateful for numerous gifts received during the year.

From the John Anson Kittredge Educational Fund we received another contribution of \$250 for purchase of books on foreign relations, diplomatic history, and music. These books commemorate the late John Anson Kittredge, '54.

Some 500 books from the library of the late Ira Jewell Williams, Jr., of Philadelphia, previously placed on loan in the Library, were presented as an outright gift by Mrs. Williams.

The Class of 1958 gift, an annual sum used for purchase of sets not easily obtainable with departmental funds, is again acknowledged. We hope other classes will follow the generous example of '58 in providing such funds.

A special grant of \$500 was received from the Association of College and Research Libraries, a division of the American Library Association, for purchase of music books and scores. Because our

Department of Music is a fairly recent one, its collection of books and periodicals is small. We hope for other special grants for works on music.

Inadvertently omitted from last year's report, to our regret, was a contribution from the Beta Rho Sigma Society.

Classmates and other friends of the late Jonathan Crum, '64, presented the Library with a large globe and a fund which will be used this year to strengthen our holdings in modern English and American literature.

Gifts of funds, books, pamphlets, Haverfordiana, or subscriptions were received from the following alumni:

John C. Burton, '54; H. Douglas Campbell, '38; Bennett S. Cooper, '18; Henry S. Drinker, '00; Robert B. Fowler, '62; Harrison S. Hires, '10; Howard P. Kurzman, '58; Richard H. Lederer, '59; Robert W. Leeds, '23; Benjamin S. Lowenstein, '34; J. Don Miller, Jr., '36; Harold H. Morris, '04; Philip A. Musgrove, '62; Richard W. Norton, '44; Edward P. Rich, '53; Charles A. Robinson, '28; Fred Rodell, '26 (some autographed letters of Justices of the U.S. Supreme Court); Arnold C. Satterthwait, '43; Richard W. Schuman, '48; Dr. Frederic D. Sharpless, '00; John A. Silver, '25 (autographs of George III and Queen Victoria); Albert K. Smiley, '06; Frederic Stadelman, '98; John J. Stoudt, '33; John K. Swift, '61; Abram G. Tatnall, '00; W. Wyclif Walton, '24; William Webb, '13 (miscellaneous books on cricket and a few Morley and Haverfordiana items).

Also Thomas A. Garver, '56, whose name should have appeared in last year's list as well.

Also from the following members of the Haverford Faculty: John Ashmead, Jr., Philip W. Bell, Hugh Borton, '26; Henry J. Cadbury, '03; William E. Cadbury, Jr., '31; Howard Comfort, '24 (a copy of the second edition of Thomas Gray's *An Elegy Wrote in a Country Church Yard*, London, R. Dodsley, 1751; also two Christopher Morley letters); John H. Davison, '51; Alfred Diamant, Thomas E. Drake, Harmon C. Dunathan, Harvey Glickman, Holland Hunter, '43; George A. Kennedy, John A. Lester, Jr., '37; Wallace T. MacCaffrey, Archibald MacIntosh, '21; Cletus O. Oakley, Frederic Palmer, Jr., Harry W. Pfund, '22; L. Arnold Post, '11; Alfred W. Satterthwaite, Fay A. Selove, Herman M. Somers, Howard M. Teaf, Jr., Craig R. Thompson, The Estate of Russell R. Williams, Jr.

Aldo Caselli presented a collection of about 400 works in English, French, and Italian, mainly concerning the Islamic world of northern Africa; also three large and valuable sets of Italian music periodicals.

Gifts were received from the following foundations, institutions, and societies: Alfred P. Sloan Foundation, American Assembly, American Universities Field Staff, Bucks County Federation of Women's Clubs, Danforth Foundation, Edward W. Hazen Foundation, Emil Schwarzhaupt Foundation, Fellowship of Reconciliation, Ford Foundation, Historical Society of Delaware, Japan Society, Jewish Chautauqua Society, John Knox Association, Geneva, Switzerland; Lederer Foundation, Lietuvos TSR Mokslu Akademija, Vilnius, LTR; Milbank Memorial Fund, Modern Language Association of America, National Book Foundation, Netherlands Universities Foundation for International Co-operation, The Hague, Holland; Social Science Institute, Société Royale des Sciences de Liège, Liège, Belgium; Student Christian Movement, William Nelson Cromwell Foundation, Eleutherian Mills Historical Library, Library of Congress, Gertrude Clarke Whittall Poetry and Literature Fund; Kent State University, St. Albans School, Washington, D. C.; St. John's University, Jamaica, N.Y.; Schwenkfelder Library, Pennsburg, Pa.; Scuola Tipografica Salesiana, Catania, Sicily; Stanford University Libraries, University of California, Institute of Industrial Relations; University of Cincinnati, University of Connecticut, University of Minnesota Library, Utah State University Faculty Association, Vassar College, Whittier College, Williams College Library.

Also from the Consulate General of Japan, New York; Danish Information Office, New York; Japan Institute of International Affairs, Tokyo; Soviet Embassy, Washington, D. C.

Also from American Cyanamid Co., American Federation of Labor and Congress of Industrial Organizations, Armstrong Cork Company, Bankers Trust Co., New York; CIBA Pharmaceutical Products, Inc., Eastman Kodak Co., First National Bank of Santa Fe, New Mexico; Hampden Hills Press, Palmer, Mass.; International Bank for Reconstruction and Development, Washington, D. C.; Joint Industry Board of the Electrical Industry, McGraw-Hill Book Co., Inc.; Pennsylvania Consumer Finance Association, Rand Corporation, Smith Kline & French Laboratories, Standard Oil Company (New Jersey), United Auto Workers.

Also from Mrs. Olga Ajzenberg, G. Putnam Barber, '63; Mrs. August Belmont, F. R. Bickelhaupt, Donald M. Blinken, Board of Rabbis of Greater Philadelphia, Wilmon Brewer, Robert C. Clothier, Mrs. W. H. Grant, Fred A. Hargadon, Ann Hawker Hutton, Percival E. Jackson, Richard D. Kubik, Floyd I. Lorbeer, M. Helen MacCoy (in memory of Marjorie N. MacCoy), Mrs. Frederick J. Manning, Mrs. Helena Maxfield, Mrs. Merrill Moore, Observatoire de Paris, Therese Perette, Frank E. Peterson, Mrs. E. R. Robinson, Miss Mary C. Smith, Mrs. Craig M. Snader (in memory of Craig M. Snader, '22, and J. Danforth Bush), Ray S. Tannehill, Mrs. Nora B. Thompson, Jan Tinbergen, Joseph B. Townsend, George Vaux, Mrs. Allison Pawling Wesley, Elizabeth A. Williamson, Mrs. Coulter J. Wilson (in memory of Irvin Coulton Heyne, '23), Mrs. S. B. C. Wood.

Once more we were indebted to the Library Associates for their annual contribution towards purchase of books of current interest. Some readers of this report had the pleasure of attending the Associates' occasional Sunday afternoon meetings and teas, arranged with customary success by Professor Lockwood. Speakers at these meetings were: Professor John Ashmead, "The Story of a First Novel"; Professor Azizur Rahman Mallick of Rajshahi University, "Introducing Pakistan"; Professor Edwin Bronner, "The Viper in Eden." At one meeting, "A Book Pow-Wow or Feast of Books," there was no speaker.

Library exhibits during the year featured Philips rare books from the Philips Collection; works of Charles Dickens; manuscripts, typescripts and other papers relating to Christopher Fry (loaned by their owner, Professor Robert H. Butman); novels by Haverford authors, past and present; and early Quaker papers.

CRAIG R. THOMPSON

LIBRARY STATISTICS

1961-1962

Growth of collections

Total number of volumes (as of June 30, 1962)	225,586
Number of volumes added in 1961-1962:	
By purchase	3,652
By gift	841
Government Depository	200
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Total	4,693
Number of books discarded	204
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Total	4,489

Circulation

Faculty and staff borrowings	3,743
Students	17,708
Outside borrowers	5,846
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Total	27,297
Books charged out to carrels	1,188
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Total	28,485

Reserve Book Room

Books put on reserve	4,780
Reserve book circulation:	
Library use	21,524
Overnight	5,629
	<hr/>
Total	27,153

Interlibrary Loan

Borrowed	571
Loaned	1,103

APPENDIX

The first part of this list, published in *Haverford College Bulletin*, Vol. LX, no. 4, January, 1962, consisted entirely of titles of works bequeathed by William Pyle Philips or purchased with Philips funds.

Part ii, which follows, includes both Philips purchases and rare books acquired with other funds since 1952. The latter are marked with an asterisk.

WILLIAM PYLE PHILIPS COLLECTION AND OTHER RARE BOOKS PURCHASED 1953-62, *HAVERFORD COLLEGE LIBRARY*

1. BOYLE, HON. ROBERT.

New experiments and observations touching cold . . . Whereunto is annexed An account of freezing . . . by the learned Dr. C. Merret . . . London, printed for John Crook, 1665.
First edition.

2. BOYLE, HON. ROBERT.

A continuation of New experiments physico-mechanical, touching the spring and weight of the air, and their effects. The I. Part. Written by way of a letter, to the Right Honorable the Lord Clifford and Dungarvan. Whereto is annexed a short discourse of the atmospheres of consistent bodies . . . Oxford, printed by Henry Hall . . . for Richard Davis, in the Year 1669.
First edition.

3. BROWNE, SIR THOMAS.

The works of the learned Sir Thomas Brown, Kt., Doctor of Physic, late of Norwich . . . London, printed for Tho. Basset, Ric. Chiswell, Thos. Sawbridge, Charles Mearn, and Charles Brome, 1686. 4 parts in 1 vol.
First collected edition.

4. BRUTUS, STEPHANUS JUNIUS, *pseud.*

De la puissance legitime du prince sur le peuple, et du peuple sur le prince . . . Genève, 1581.
First edition.
French translation (by François II Estienne) of Vindiciae contra tyrannos. 1579.

5. BRYANT, WILLIAM CULLEN.

Poems. Cambridge [Mass.] Hilliard and Metcalf, 1821.
First edition.

6. CASTIGLIONE, BALDASSARE, *conte.*

The courtier . . . very necessary and profitable for young gentlemen & gentlewomen abiding in court, palace or place, done into English by Thomas Hobby. London, Henry Denham, 1577.
Second edition of first English translation.

7. CAVENDISH, GEORGE.

The life and death of Thomas Wolsey, cardinal; once Arch Bishop of York, and Lord Chancellor of England. London, printed for Dorman Newman, 1667.

8. CLEMENS, SAMUEL LANGHORNE.

The adventures of Huckleberry Finn (Tom Sawyer's comrade) . . . by Mark Twain . . . with 174 illustrations. London, Chatto & Windus, 1884. *First edition.*

Published Dec. 4, 1884, several days before the American edition was received for copyright at Washington.

9. *CLEMENS, SAMUEL LANGHORNE.

Adventures of Huckleberry Finn (Tom Sawyer's comrade) . . . By Mark Twain. With one hundred and seventy-four illustrations. New York, Charles L. Webster and Company, 1885. *First American edition.*

10. CLEMENS, SAMUEL LANGHORNE.

A Connecticut Yankee in King Arthur's Court. By Mark Twain. New York, Charles L. Webster & Company, 1889.

First edition, probably first issue.

11. COPERNICUS, NICOLAUS.

. . . De revolutionibus orbium coelestium, libri VI . . . Norimbergae, apud Ioh. Petreium, 1543.

First edition.

12. DANIEL, SAMUEL.

A panegyric congratulatory delivered to the King's Most Excellent Majesty at Burleigh Harrington in Rutlandshire. Also certain epistles, with A defence of rhyme . . . London, imprinted for Edward Blount, 1603.

Believed to be the first octavo edition.

13. DESMARETS DE SAINT-SORLIN, JEAN.

Clovis, ou la France chrestienne. Poème héroïque . . . Paris, Chez Augustin Courbé . . . Henri Le Gras . . . et Jaques Roger . . . avec privilege du Roi, 1657.

First edition.

14. DICKENS, CHARLES.

Bleak house . . . With illustrations by H. K. Browne. London, Bradbury and Evans, 1853 [i.e. 1852-53].

First edition: 20 numbered parts (in 19), in green wrappers, issued monthly, from March, 1852, to September, 1853.

15. DICKENS, CHARLES.

The posthumous papers of the Pickwick Club . . . With forty-three illustrations, by R. Seymour and Phiz [H. K. Browne]. London, Chapman and Hall, 1837 [i.e. 1836-37].

First edition: 20 numbered parts (in 19) issued montly (except June, 1837) from April, 1836, to November, 1837—the first to appear in green wrappers.

16. DÜRER, ALBRECHT.

Albertus Durerus . . . Quatuor his suarum institutionum geometricarum libris, lineas, superficies & solida corpora tractavit . . . Denuo ad scripti exemplaris fidem omnia diligenter recognita, emendatius iam in lucem exeunt. Parisiis, Ex officina Christiani Wecheli, 1535.

Latin translation of his Unterweisung der Messung. Nuremberg, 1525.

Bound with: Alberti Dureri . . . de urbibus, arcibus, castellisque condendis, ac muniendis rationes aliquot, praesenti bellorum necessitati accommodatissimae . . . Parisiis, Ex officina Christiani Wecheli, 1535.

Latin translation of his Etlicher Unterricht zur Befestigung der Stadt, Schloss, und Flecken. Nuremberg, 1527.

17. ERASMUS, DESIDERIUS.

Bellum per Des. Eras. Roterodamum. [Colophon: Basileae apud Io. Frobenium mense Aprili an. 1517]

The first separately issued edition. Expanded from his Adagiorum chiliades IV. cent. 1.

At head of text: Dulce bellum inexpertis.

18. FIELDING, HENRY.

The history of Tom Jones, a foundling . . . London, printed for A. Millar . . . 1749. 6 vols.

First edition, first issue.

19. FOXE, JOHN.

Acts and monuments . . . Wherein is set forth at large the whole race and course of the Church . . . Now again . . . the sixth time newly imprinted, with certain additions thereunto annexed: Anno 1610. Mense Octobris. London, printed for the Company of Stationers, 1610. 3 vols.

First published in Latin at Basel in 1554, and in English in 1563.

20. HAKLUYT, RICHARD.

The principal navigations, voyages and discoveries of the English nation . . . Whereunto is added the last most renowned English navigation, round about the whole globe of the earth . . . London, George Bishop and Ralph Newbery, deputies to Christopher Barker . . . 1589.

First edition.

21. *HOLINSLED, RAPHAEL.

[The chronicles of England, Scotland and Ireland. London, 1587. Colophon: At London, printed in Aldersgate street at the sign of the Star [Henry Denham]. Cum privilegio.] 3 vols. in 2.

Each volume has special title-page only. Edited by John Hooker, who continued the work to 1586, with the assistance of Francis Thynne on the Scottish continuations, and with Thynne, Abraham Fleming and John Stow on the other portions of the book.

Sections of vols. 2 and 3 were censored by the Privy Council immediately.

22. HOOKER, RICHARD.

Of the laws of ecclesiastical polity. Eight books . . . London, John Windet [1593]

First edition.

Contains only the first four books.

Bound with: . . . The fifth book . . . London, John Windet, 1597.

First edition.

23. JARDIN DES MUSES.

Jardin des muses. Où se voient les fleurs de plusieurs agréables poésies, recueillies de divers auteurs tant anciens que modernes. A Paris, Chez Antoine de Sommaville . . . et Augustin Courbé. 1643.

24. LEMAIRE DE BELGES, JEAN.

Les illustrations de Gaule et singularités de Troye . . . Avec la couronne margaritique, & plusieurs autres oeuvres de lui, non jamais encore imprimées. Le tout revu & fidèlement restitué par maître Antoine du Moulin Masconnois . . . Lyon, par Jean de Tournes, avec privilege du Roi pour dix ans, 1549.

In original binding made for Philip II, King of Spain, with his coat-of-arms on cover.

25. LYLY, JOHN.

Euphues the anatomy of wit . . . Corrected and augmented. [Euphues and his England] London, John Beale, for John Parker [1623] 2 pts. in 1. *These two parts were first printed together and signed continuously in 1617.*

26. LYLY, JOHN.

Six court comedies. Often presented and acted before Queen Elizabeth, by the Children of Her Majesty's Chapel, and the Children of Paul's . . . London, William Stansby for Edward Blount, 1632.

27. *MARLOWE, CHRISTOPHER.

The famous tragedy of the rich Jew of Malta. As it was played before the King and Queen, in His Majesty's Theatre at Whitehall, by Her Majesty's Servants at the Cockpit . . . London, J[ohn] B[eale] for Nicholas Vavasour . . . 1633.

First known edition.

28. MIRROR FOR MAGISTRATES.

A mirror for magistrates: being a true chronicle history of the untimely falls of such unfortunate princes and men of note . . . Newly enlarged with a last part, called A winter night's vision . . . with a poem annexed, called England's Eliza. London, Felix Kingston, 1610.

29. MOLIÈRE, JEAN BAPTISTE POQUELIN.

Les oeuvres de Monsieur de Molière. Revues, corrigées & augmentées [par Robert (?) Vivot et Charles Varlet, sieur de La Grange] . . . A Paris, Chez Denis Thierry . . . Claude Barbin . . . et Chez Pierre Trabouillet . . . 1682. 8 vols.

The 1682 edition by his actor-comrades Vivot and La Grange is the authoritative first posthumous edition of the complete plays. Vols. 7 and 8 contain the plays never before published.

This edition preserves the stage directions in use in Molière's own day as practiced by his own troupe, as well as a record of the lines skipped in actual performance.

The illustrations (contemporary engravings by Jean Sauvé, after Pierre Brissart) are the sole record of what Molière looked like on stage in the main comic role of each of the plays.

30. NÚÑEZ DE GUZMÁN, FERNÁNDO.

Refranes, o proverbios en romance, que nuevamente colligió y glossò el Comendador Hernán Núñez . . . Con privilegio . . . En Salamanca, En casa de Juan de Canova, 1555.

First edition.

Copy censored with ink and slip cancels.

31. OTWAY, THOMAS.

Venice preserv'd; or, A plot discover'd. A tragedy. As it is acted at the Duke's Theatre . . . London, printed for Jos. Hindmarsh . . . 1682.
First edition.

32. OTWAY, THOMAS.

Windsor Castle, in a monument to our late Sovereign K. Charles II. . . .
A poem . . . London, printed for Charles Brome . . . 1685.
First edition.

33. PARKER, HENRY.

Jus populi. Or, A discourse wherein clear satisfaction is given, as well concerning the right of subjects, as the right of princes . . . London, printed for Robert Bostock, 1644.
First edition.

34. *PARKER, HENRY.

A political catechism; or, Certain questions concerning the government of this land, answered in His Majesty's own words taken out of His Answer to the 19 propositions, pag. 17, 18, 19, 20 of the first edition . . . London, printed for Samuel Gellibrand, 1643.
First edition.

35. *PARKER, HENRY.

The question concerning the divine right of episcopacy truly stated. London, printed for Robert Bostock, 1641.
First edition.

36. PASCAL, BLAISE.

Pensées de M. Pascal sur la religion et sur quelques autres sujets, qui ont été trouvées après sa mort parmi ses papiers. A Paris, Chez Guillaume Desprez, 1670.
First edition.

37. RICHARDSON, SAMUEL.

Clarissa. Or, The history of a young lady . . . The fourth edition . . . London, S. Richardson: And sold by John Osborn . . . 1751. 7 vols.
Presentation copy with author's inscription: "To His Dear Mrs. Chapone The Editor. April 23, 1754."
First printing of the complete text.

38. STERNE, LAURENCE.

The life and opinions of Tristram Shandy, gentleman . . . London, printed for R. and J. Dodsley . . . 1760 [—1767] 9 vols.
Vols. 1-2, second edition; vols. 3-9, first edition.
Vols. 5-9: Printed for T. Becket and P. A. Dehondt.
Our copy has Sterne's autograph on first page of text in vols. 5, 7, and 9.

39. SURREY, HENRY HOWARD, *earl of.*

Poems of Henry Howard, Earl of Surrey who flourished in the reign of Henry the Eighth. Printed from a correct copy. With the poems of Sir Thomas Wyatt, and others [of] his famous contemporaries . . . London, printed for W. Meares . . . and J. Brown . . . 1717.



REPORT OF THE CURATOR OF THE QUAKER COLLECTION

1961-1962

IT was just twenty years ago that the new Treasure Room was dedicated in May of 1942. President Felix Morley spoke first on that occasion, followed by President Emeritus William Wistar Comfort. Morris E. Leeds, whose generosity had made the new Treasure Room possible, made the presentation for the Board of Managers, over which he presided. The young man who received the gift for the Library was the Curator of the Quaker Collection, Thomas E. Drake.

Thomas Drake came to Haverford College shortly after he completed his graduate study at Yale University, when he was less than thirty years old, and served as Curator of the Quaker Collection for more than a quarter of a century. In 1937 the first printed report of the Curator appeared in the President's Report, tucked in between the reports of the Library and the Infirmary. That first statement mentioned gifts such as letters written by Presidents Harding and Coolidge; the oil painting, "The Quaker Meeting," by van Heemskerck; the Morris-Sansom collection of papers; and the papers of Dr. Joseph W. Taylor. It was not long before statistics concerning the use of the Quaker Collection were added to a report of acquisitions by gift and purchase.

During the years that he held the title of Curator, Thomas Drake contributed a major book to the literature of Quaker history, *Quakers and Slavery in America* (Yale University Press, 1950). His presidential address before the Friends Historical Society, in Great Britain, was published under the title, *Patterns of Influence in Anglo-American Quakerism*. He was also the author of many articles in encyclopedias and learned journals. As an authority on Quaker history and the anti-slavery movement he was asked to review many books for journals and

magazines. He edited the *Quakeriana Notes* from 1936 to 1942, and the *Bulletin* of the Friends Historical Association from 1945 to 1948. He was president of the Friends Historical Association, and has continued to be active on the Board of Directors.

When Thomas Drake became Curator, there were some 10,000 books, pamphlets and other printed items, plus 5,000 manuscripts in the Quaker Collection. In addition, there were 15,000 items in the Charles Roberts Autograph Collection. Today there are some 21,000 books and 47,000 documents in the Quaker Collection, and nearly 21,000 non-Quaker manuscripts, including the very large Roberts Collection. In addition, the Treasure Room houses the Rufus Jones Mysticism Collection of 1,000 books and pamphlets, and more than 300 reels of microfilm material. Under his leadership the Quaker Collection, which was once in an alcove of the Library, and the Roberts Collection, which was in a room in Roberts Hall, have been brought together in the Treasure Room and expanded enormously. Thomas Drake's years as Curator will always be remembered as decisive ones in the history of this division of the Library.

It is impossible for me to do justice to the events of the past year in the Quaker Collection, even though various facts, notes, and suggestions have been provided for me by my predecessor and by members of the staff. However, there are several matters which I would like to mention.

Two members of the staff resigned at the end of the college year because they were moving away from this area. Mrs. Bessie Orr Haakinson, who had served as supervisor of the Treasure Room, was appreciated for her faithfulness, ingenuity, and assiduity, particularly in connection with preparing exhibitions and ploughing through the mountains of routine work connected with the Friends Historical Association. Mrs. Elsie T. Freeman, who had been doing excellent work with the manuscript collection, particularly in preparing data for the Library of Congress National Union Catalog of Manuscripts, will also be sorely missed. Fortunately, Mrs. Marjorie Davis, assistant to the Curator, has remained with the Quaker Collection, and has been invaluable not only for her own very competent work, but as a mentor to the new persons coming to use the Collection. The staff positions have been filled for the current year, and we look forward to the development of a smooth, efficient operation of the Quaker Collection.

Once again we wish to acknowledge the important contribution to the advancement of the work of the Quaker Collection made possible by the Trustees of the William H. and Mary Williams Shoemaker Fund. This year the money from the Shoemaker Trust subsidized the work of Mrs. Freeman on the Library of Congress Catalog of Manuscripts. When this catalog is completed, it will make the manuscript material of the Quaker Collection and the Roberts Collection much more accessible to scholars. In the meantime, two new bibliographies of manuscript materials, *A Guide to Archives and Manuscripts in the United States*, edited by Philip M. Hamer for the National Historical Publications Commission, and *American Literary Manuscripts*, compiled by the Modern Language Association, have already increased the number of written queries from scholars concerning our manuscript collections.

As always, friends of Haverford College were generous with a variety of gifts to our collections. Sarah A. G. Smith, of Chestnut Hill, gave an account book kept by George Dillwyn between the years 1764 and 1793, plus some 450 other items, and Susanna Smedley, of Wawa, gave a collection of Civil War papers, letters, and clippings about a Quaker Conscientious Objector of that period, Edward G. Smedley. A notable gift to the Roberts Collection came from Fred Rodell, '26, at the Yale University Law School, and the 1962 Commencement speaker at Haverford. He provided autographed letters from Chief Justice Earl Warren, Associate Justices William J. Brennan, Jr., Hugo Black, and William O. Douglas, along with letters written by Charles A. Beard, Harold J. Laski, and others.

While it would be presumptuous of me to attempt any definitive analysis of the Quaker Collection or the work of the Curator at this time, I have been impressed with one fact, and cannot refrain from mentioning it. We are short of space in the Treasure Room. One staff member, in addition to the secretary, does her work out in the main room. We have no adequate work space for visiting scholars who come to work in our collection for a period of time. There would be space on the balcony, but the unpredictable temperature up there often makes that unbearable for any one except William Bacon Evans, who continues to do his research despite such handicaps.

The Treasure Room shares with the rest of the library the imminent shortage of shelf space. We add more than 200 books each year, plus 100 periodicals, and Yearly Meeting Minutes from thirty-one yearly meetings. The manuscript collection is already cramped and more space is needed at once. Each year we receive several hundred manuscripts, and often the most efficient way of cataloging such material requires new boxes and shelf space. The same is true of the large quantities of pamphlets, off-prints, clippings, and other material. Work space for the staff in the manuscript room is also at a premium.

The spacious, commodious Treasure Room which was opened twenty years ago is fast filling up, and plans for the future must get under way without delay. While there are many ways to indicate the influence of the Religious Society of Friends on the campus of Haverford College, the most obvious visual indication is found in the Quaker Collection. If it is a growing, vigorous division of the Library, serving the needs of Friends both in the immediate area and from far away places, it not only fulfills a scholarly purpose, but contributes to the advancement of the Society of Friends.

EDWIN B. BRONNER

GIFTS AND ACQUISITIONS

The following gifts deserve special notice:

For the Quaker Collection:

From Emma Cadbury, Moorestown, New Jersey, pamphlets relating to New Jersey Friends.

From Professor Henry J. Cadbury, a collection of fugitive twentieth-century pamphlets on the Society of Friends in Europe and America, and a cover having on it a "Quaker" postmark: "Sandy Spring, Maryland, 4 M. 22 [1863]."

From John F. Gummere, Philadelphia, a photostatic copy of a letter from John Greenleaf Whittier discussing the candidacy of Richard Mott Jones for the headmastership of the William Penn Charter School in 1874.

From Geoffrey Hoyland, Tocknells House, Painswick, Gloucestershire, England, a photograph of a portrait of Daniel Wheeler, great-great uncle of the donor.

From Robert J. Leach, Chêne-Bougeries (near Geneva), Switzerland, a typewritten essay on the administrative history of London Yearly Meeting in the first century.

From Professor Floyd Moore, Guilford College, a mimeographed copy of "Challenge of Hope," a paper read before the Southwest Conference of Friends (now South Central Yearly Meeting), November 24, 1961.

From Susanna Smedley, Wawa, a collection of Civil War papers, letters and clippings relating to Edward G. Smedley, A Quaker Conscientious Objector.

From Sarah A. G. Smith, Chestnut Hill, an account book of George Dillwyn for the years 1764 to 1793 and other Quaker books and manuscripts. Also, through her good auspices her brothers and sisters gave nearly 450 items relating to the Edward Wanton Smith family, Thomas Fischer, George Dillwyn and other eighteenth and nineteenth century Friends.

From Robert L. Wixom, Little Rock, Arkansas, deeds and family records of the Llewellyn family, who settled in the Welsh Tract

near what is now Haverford College; the deeds date from 1695 through 1849.

For the Charles Roberts Autograph Collection:

From Fred Rodell, '26, Yale University, School of Law, autograph letters of Chief Justice Earl Warren, and Associate Justices Brennan, Black and Douglas, together with letters of Charles A. Beard, historian, Harold J. Laski, English publicist and political scientist, Commissioner Robert Moses of New York, and Governor Gifford Pinchot of Pennsylvania.

From John A. Silver, '25, Pipersville, Pennsylvania, several English autographs, including the signatures of George III, Queen Victoria, and Lord John Russell.

For the Haverfordiana Collection:

From Professor Howard Comfort, three diaries of his grandfather, Howard Comfort, of the Class of 1870.

From Mary Hoxie Jones, Bryn Mawr, Pennsylvania, autograph letters and verses by Alfred Lowry, '09, concerning the College and its professors.

STATISTICS FOR THE REPORT OF THE
CURATOR OF THE QUAKER COLLECTION
1961-1962

Books and pamphlets received by gift or purchase	212
Manuscripts received by gift or purchase	561
Research workers who visited the Treasure Room	12
Research inquiries answered by correspondence	121
Students and visitors	1387
Exhibits prepared	13
Professors using rare books and manuscripts in class	22
Students using rare books in Treasure Room	15
Meetings and classes in Treasure Room	13





